HT-Z320
HT-TZ322
HT-TZ325
HT-Z420
HT-TZ422
HT-TZ425

# Digital Home Cinema System

## user manual

imagine the possibilities

Thank you for purchasing this Samsung product.
To receive more complete service,
please register your product at

www.samsung.com/global/register

SAMSUNG

# features

## Playback of many disc types

This Home Cinema System allows you to play back various discs, including DVD-VIDEO, CD, MP3-CD, WMA-CD, DivX, CD-R/RW, and DVD±R/RW.

## USB Host support

You can enjoy media files such as pictures, movies and music saved on an MP3 player, digital camera or USB memory stick by connecting the storage device to the USB port of the Home Cinema.

## Dolby Pro Logic II

Dolby Pro Logic II is a form of multi-channel audio signal decoding technology that improves upon existing Dolby Pro Logic.

## DTS (Digital Cinema Systems)

DTS is an audio compression format developed by Digital Cinema Systems Inc. It delivers full-frequency 5.1 channel sound.

## TV Screen Saver Function

If the main unit remains in Stop mode for 5 minutes, the Samsung logo appears on the TV screen.

The unit will automatically switch to the Power Saving mode after 20 minutes in the Screen Saver mode.

## Power Saving Function

The unit will automatically shut off after 20 minutes in Stop mode.

## Customized TV Screen Display

Allows you to select your favorite image during JPEG or DVD playback and set it as your background wallpaper.

## Anynet+ (HDMI-CEC) Function

Anynet+ is a function that can be used to operate the main unit using a Samsung TV remote control, by connecting the Home Cinema to a SAMSUNG TV using an HDMI Cable. (This is only available with SAMSUNG TV's that support Anynet+.)

## iPhone & iPodsupport

You can enjoy music files by connecting your iPod to the home Cinema with the supplied iPod dock.

## Wireless receiver amplifier(HT-Z420/TZ422/TZ425)

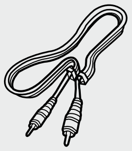
Samsung 's rear- channel wireless module does away with cables running between your DVD receiver and rear- channel speakers. Instead, the rear speakers connect to a compact wireless module that communicates with your DVD receiver.

## AV SYNC Function

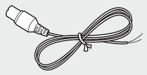
Video may lag behind the audio if the unit is connected to a digital TV.
To compensate for this, you can adjust the audio delay time to sync up with the video.

# WHAT'S INCLUDED

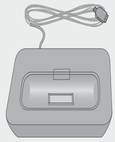
Check for the supplied accessories below.



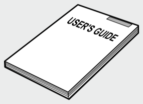
Video Cable



FM Antenna

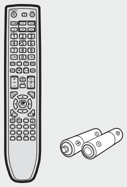


iPod Dock Package

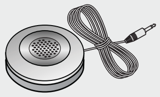


USER'S GUIDE

User's Manual

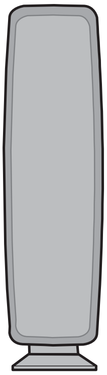


Remote Control
/ Batteries
(AAA size)

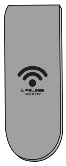


ASC microphone

## SWA-4100(HT-Z420/TZ422/TZ425 )

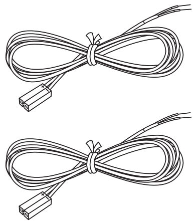


Wireless Receiver Module



WIRELESS
READY

TX Card

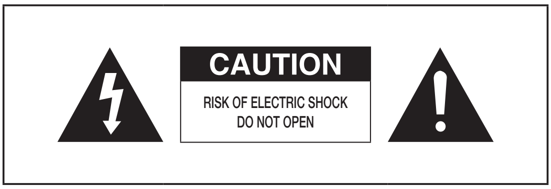


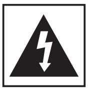
Speaker Cable (2EA)

# safety information

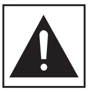
## SAFETY WARNINGS

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.





This symbol indicates “dangerous voltage” inside the product that presents a risk of electric shock or personal injury.



This symbol indicates important instructions accompanying the product.

**CLASS 1 LASER PRODUCT**
**KLASSE 1 LASER PRODUKT**
**LUOKAN 1 LASER LAITE**
**KLASS 1 LASER APPARAT**
**PRODUCTO LASER CLASE 1**

### CLASS 1 LASER PRODUCT

This Compact Disc player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

**CAUTION** : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED, AVOID EXPOSURE TO BEAM.

**WARNING** : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

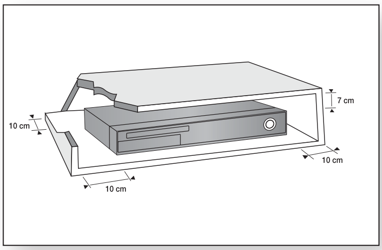
**CAUTION** : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

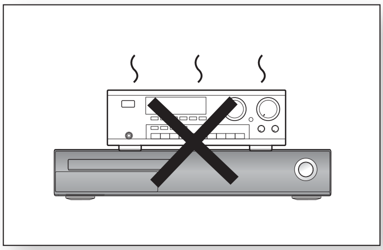
- This apparatus shall always be connected to a AC outlet with a protective grounding connection.
- To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

**CAUTION**

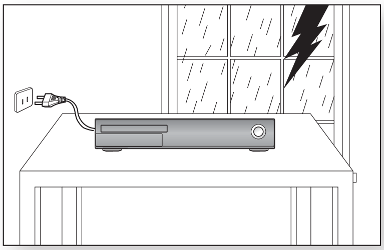
- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- The Mains plug is used as a disconnect device and shall stay readily operable at any time.

# PRECAUTIONS

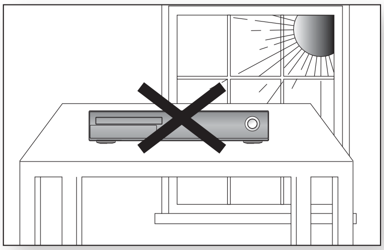




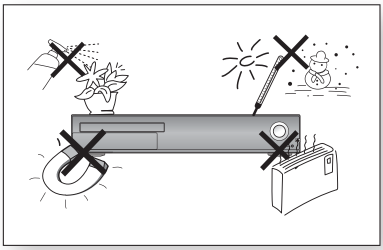
Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base (furniture), with enough space around it for ventilation (3~4 inches). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the DVD player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.



During thunderstorms, disconnect the AC main plug from the wall outlet. Voltage peaks due to lightning could damage the unit.

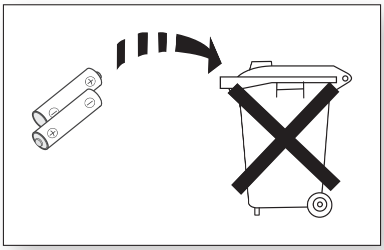


Do not expose the unit to direct sunlight or other heat sources. This could lead to overheating and malfunction of the unit.



Protect the player from moisture (i.e. vases) , and excess heat (e.g.fireplace) or equipment creating strong magnetic or electric fields (i.e.speakers...). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use. Use of this product is for personal use only.

Condensation may occur if your player or disc has been stored in cold temperatures. If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.



The batteries used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

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# getting started

## BEFORE READING THE USER'S MANUAL

Make sure to check the following terms before reading the user manual.

### Icons that will be used in manual

| Icon | Term | Definition |
|---|---|---|
| DVD | DVD | This involves a function available with DVD or DVD-R/DVD-RW discs that have been recorded and finalized in Video Mode. |
| CD | CD | This involves a function available with a data CD (CD-R or CD-RW). |
| MP3 | MP3 | This involves a function available with CD-R/-RW discs. |
| JPEG | JPEG | This involves a function available with CD-R/-RW discs. |
| DivX | DivX | This involves a function available with MPEG4 discs.<br>(DVD±R/RW, CD-R or CD-RW) |
| ! | Caution | This involves a case where a function does not operate or settings may be cancelled. |
| ✎ | Note | This involves tips or instructions on the page that help each function operate. |

✎

- **In this manual, the instructions marked with "DVD ( DVD )" are applicable to DVD-VIDEO and DVD-R/-RW discs that have been recorded in Video Mode and then finalized. Where a particular DVD type is mentioned, it is indicated separately.**
- If a DVD-R/-RW disc has not been recorded properly in DVD Video format, it will not be playable.

### About the use of this user's manual

1) Be sure to be familiar with Safety Information before using this product. (See pages 4~5)
2) If a problem occurs, check the Troubleshooting. (See pages 69~70)

### Copyright

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**DVD (Digital Versatile Disc)** offers fantastic audio and video, thanks to Dolby Digital surround sound and MPEG-2 video compression technology. Now you can enjoy these realistic effects in the home, as if you were in a movie cinema or concert hall.

1 ~ 6

DVD players and the discs are coded by region. These regional codes must match in order for the disc to play. If the codes do not match, the disc will not play.
The Region Number for this player is given on the rear panel of the player.
(Your DVD player will only play DVDs that are labeled with identical region codes.)

## PLAYABLE DISCS

| Disc Type | Mark (Logo) | Recorded Signals | Disc Size | Max. Playing Time |
|---|---|---|---|---|
| DVD-VIDEO | DVD VIDEO | VIDEO | 12 cm | Approx. 240 min. (single-sided) |
| | | | | Approx. 480 min. (double-sided) |
| | | | 8 cm | Approx. 80 min. (single-sided) |
| | | | | Approx. 160 min. (double-sided) |
| AUDIO-CD | COMPACT disc DIGITAL AUDIO | AUDIO | 12 cm | 74 min. |
| | | | 8 cm | 20 min. |
| DivX | DIVX | AUDIO + VIDEO | 12 cm | — |
| | | | 8 cm | — |

## DO NOT USE THE FOLLOWING TYPES OF DISC!

- CD-G, CD-I, CD-ROM, DVD-ROM and DVD-RAM discs cannot be played on this player.
  If such discs are played, a <WRONG DISC FORMAT> message appears on the TV screen.
- DVD discs purchased abroad may not play on this player.
  If such discs are played, a <CAN'T PLAY THIS DISC PLEASE, CHECK REGION CODE> message appears on the TV screen.

## COPY PROTECTION

- Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners.
  Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.
  Reverse engineering or disassembly is prohibited.

## DISC TYPE AND CHARACTERISTICS

This product does not support Secure (DRM) Media files.

### ❖ CD-R Discs

- Some CD-R discs may not be playable depending on the disc recording device (CD-Recorder or PC) and the condition of the disc.
- Use a 650MB/74 minute CD-R disc.
  Do not use CD-R discs over 700MB/80 minutes as they may not be played back.
- Some CD-RW (Rewritable) media, may not be playable.
- Only CD-Rs that are properly "closed" can be fully played. If the session is closed but the disc is left open, you may not be able to fully play the disc.

### ❖ CD-R MP3 Discs

- Only CD-R discs with MP3 files in ISO 9660 or Joliet format can be played.
- MP3 file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Use discs recorded with a compression/decompression data rate greater than 128Kbps.
- Only files with the ".mp3" and ".MP3" extensions can be played.
- Only a consecutively written multisession disc can be played. If there is a blank segment in the Multisession disc, the disc can be played only up to the blank segment.
- If the disc is not closed, it will take longer to begin playback and not all of the recorded files may be played.
- For files encoded in Variable Bit Rate (VBR) format, i.e. files encoded in both low bit rate and high bit rate (e.g., 32Kbps ~ 320Kbps), the sound may skip during playback.
- A maximum of 500 tracks can be played per CD.
- A maximum of 300 folders can be played per CD.

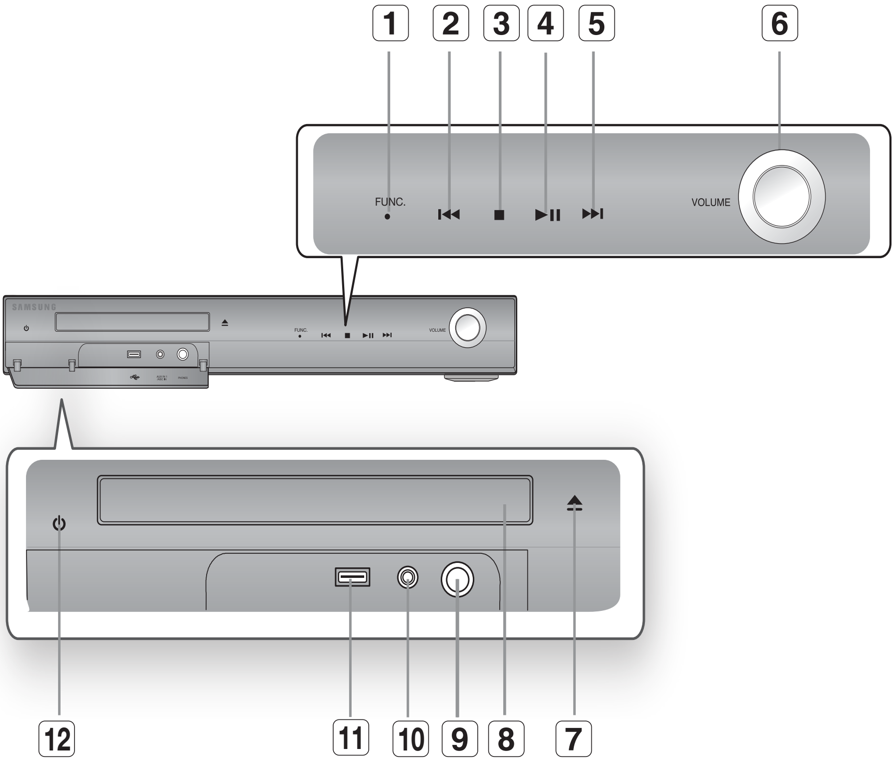
### ❖ CD-R JPEG Discs

- Only files with the "jpg" extensions can be played.
- If the disc is not closed, it will take longer to start playing and not all of the recorded files may be played.
- Only CD-R discs with JPEG files in ISO 9660 or Joliet format can be played.
- JPEG file names should be 8 characters or less in length and contain no blank spaces or special characters (. / = +).
- Only a consecutively written multisession disc can be played. If there is a blank segment in the multisession disc, the disc can be played only up to the blank segment.
- A maximum of 9,999 images can be stored on a single CD.
- When playing a Kodak/Fuji Picture CD, only the JPEG files in the picture folder can be played.
- Picture discs other than Kodak/Fuji Picture CDs may take longer to start playing or may not play at all.

### ❖ DVD±R/RW, CD-R/RW DivX Discs

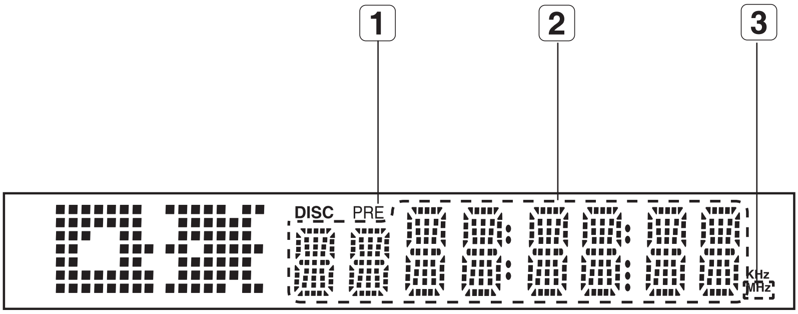
- Software updates for incompatible formats are not supported.
  (Example : QPEL, GMC, resolution higher than 800 x 600 pixels, etc.)
- Sections with a high frame rate might not be played while playing a DivX file.
- DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified or DivX Ultra Certified device that plays DivX video.

# FRONT PANEL


1
2
3
4
5
6
FUNC.
VOLUME
SAMSUNG
12
11
10
9
8
7

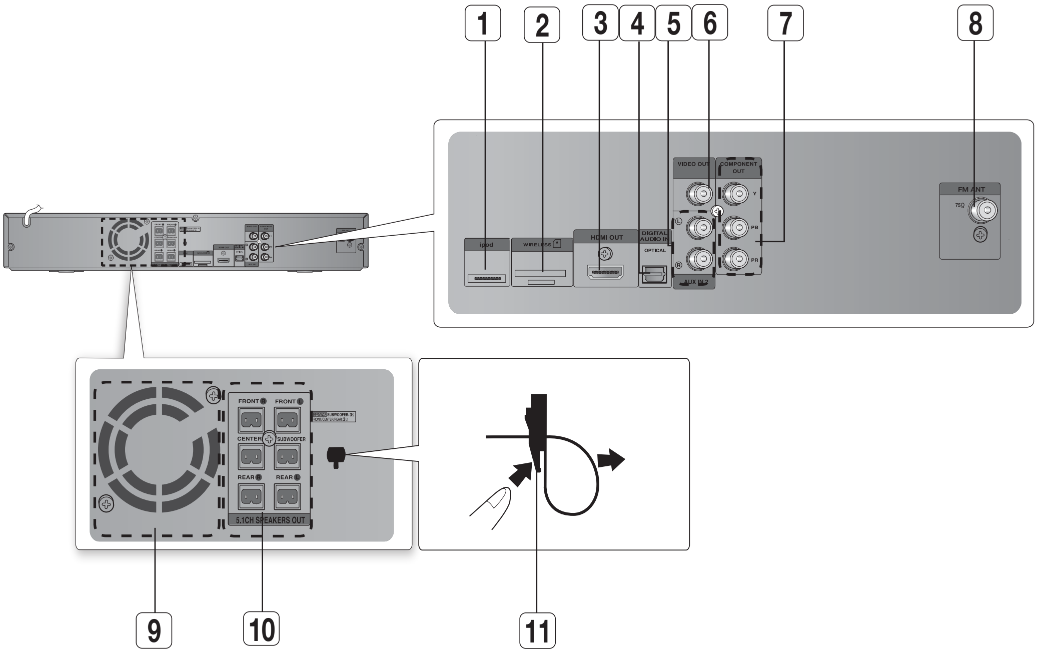
| | | | | | |
|---|---|---|---|---|---|
| 1 | FUNCTION BUTTON | 5 | TUNING UP & SKIP (▶▶I) BUTTON | 9 | PHONES CONNECTOR |
| 2 | TUNING DOWN & SKIP (I◀◀) BUTTON | 6 | VOLUME CONTROL | 10 | AUX IN 1/ASC IN CONNECTOR |
| 3 | STOP ( ■ ) BUTTON | 7 | OPEN/CLOSE BUTTON | 11 | USB CONNECTOR |
| 4 | PLAY/PAUSE (▶II) BUTTON | 8 | DISC TRAY | 12 | POWER( ⏻ ) BUTTON |

## DISPLAY


1
2
3
DISC
PRE
KHz
MHz

| | |
|---|---|
| 1 | TUNER PRESETTING INDICATOR |
| 2 | SYSTEM STATUS DISPLAY |
| 3 | RADIO FREQUENCY INDICATOR |

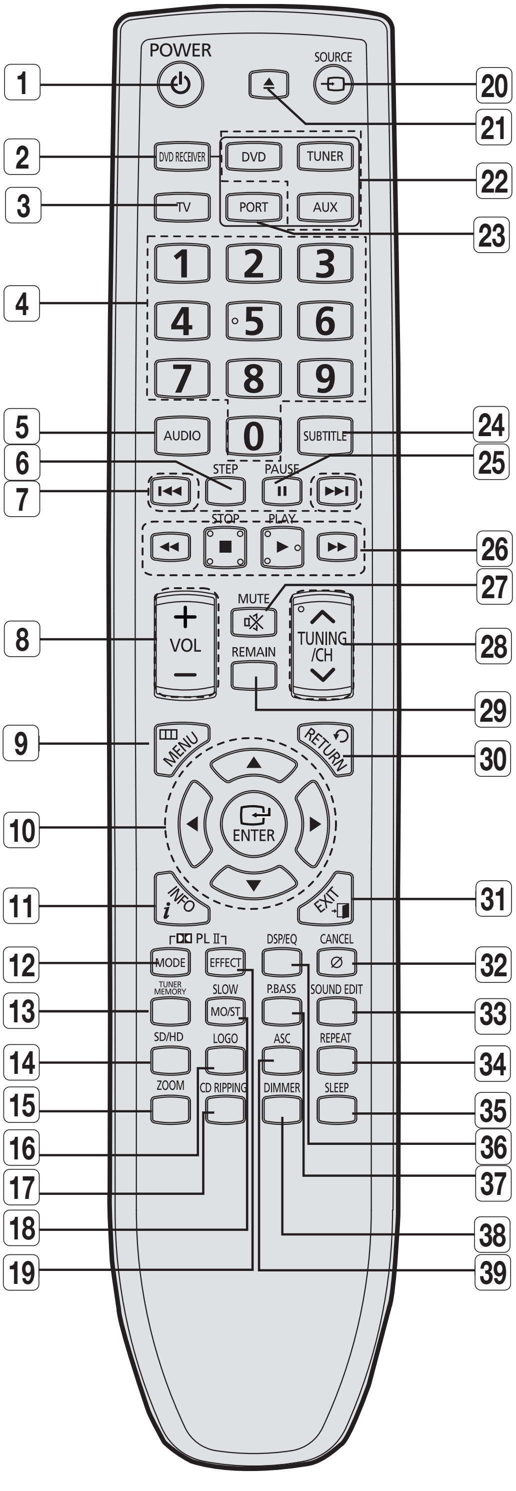
## REAR PANEL


1
2
3
4
5
6
7
8
iPod
WIRELESS
HDMI OUT
DIGITAL AUDIO IN
OPTICAL
VIDEO OUT
COMPONENT OUT
Y
PB
PR
L
R
AUX IN 2
FM ANT
75Ω
FRONT
FRONT
CENTER
SUBWOOFER
REAR
REAR
5.1CH SPEAKERS OUT
9
10
11

| | | |
|---|---|---|
| 1 | iPod JACK | Connect the iPod dock connector here. |
| 2 | TX CARD CONNECTION (WIRELESS) | The TX card enables communication between the main unit and the wireless receiver amplifier.(The wireless module is not provided for HT-Z320/TZ322/TZ325 ) |
| 3 | HDMI OUT JACK | Use the HDMI cable, connect this HDMI output terminal to the HDMI input terminal on your TV for the best quality picture. |
| 4 | External Digital Optical Input Jack | Use this to connect external equipment capable of digital output. |
| 5 | AUX IN 2 JACKS | Connect to the 2CH analog output of an external device (such as a VCR). |
| 6 | VIDEO OUTPUT JACK | Connect your TV's Video Input jack (VIDEO IN) to the VIDEO OUT jack. |
| 7 | COMPONENT VIDEO OUTPUT JACKS | Connect a TV with Component video inputs to these jacks. |
| 8 | FM 75Ω COAXIAL JACK | Connect the FM antenna. |
| 9 | COOLING FAN | The fan always revolves when the power is on. Ensure a minimum of 4 inches of clear space on all sides of the fan when installing the product. |
| 10 | SPEAKER OUTPUT CONNECTORS | Connect the front, center,rear speakers and subwoofer.<br>(HT-Z420/TZ422/TZ425 does not have rear speaker connectors on the main unit,the rear speakers are connected to the Wireless module.) |
| 11 | CLAMP-WIRE | Fasten the speaker wires. |

# remote control

## TOUR OF THE REMOTE CONTROL


POWER
SOURCE
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
1
2
3
4
5
6
7
8
9
0
AUDIO
SUBTITLE
STEP
PAUSE
STOP
PLAY
MUTE
VOL
REMAIN
TUNING /CH
MENU
RETURN
ENTER
INFO
EXIT
PL II
MODE
EFFECT
DSP/EQ
CANCEL
TUNER MEMORY
SLOW
MO/ST
P.BASS
SOUND EDIT
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
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23
24
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28
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30
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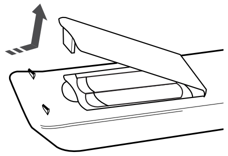
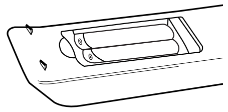
32
33
34
35
36
37
38
39

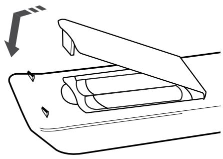
| | |
|---|---|
| 1 | POWER button |
| 2 | DVD RECEIVER button |
| 3 | TV button |
| 4 | Number (0~9) buttons |
| 5 | AUDIO |
| 6 | STEP button |
| 7 | Tuning Preset/CD Skip buttons |
| 8 | VOLUME button |
| 9 | MENU button |
| 10 | Cursor/ENTER button |
| 11 | INFO button |
| 12 | PL II MODE button |
| 13 | TUNER MEMORY |
| 14 | SD(Standard Definition)/HD(High Definition) button |
| 15 | ZOOM button |
| 16 | LOGO button |
| 17 | CD RIPPING button |
| 18 | SLOW, MO/ST button |
| 19 | PL II EFFECT button |
| 20 | SOURCE button |

| | |
|---|---|
| 21 | ⏏ OPEN/CLOSE button |
| 22 | DVD DVD button<br>TUNER TUNER button<br>AUX AUX button |
| 23 | PORT button |
| 24 | SUBTITLE |
| 25 | PAUSE button |
| 26 | ▶ PLAY button<br>■ STOP button<br>◀◀ ▶▶ SEARCH buttons |
| 27 | MUTE button |
| 28 | TUNING/CH button |
| 29 | REMAIN button |
| 30 | RETURN button |
| 31 | EXIT button |
| 32 | CANCEL button |
| 33 | SOUND EDIT button |
| 34 | REPEAT button |
| 35 | SLEEP button |
| 36 | DSP/EQ button |
| 37 | P.BASS button |
| 38 | DIMMER button |
| 39 | ASC button |

## Insert Remote Batteries







1. **Remove the battery cover in the direction of the arrow.**
2. **Insert two 1.5V AAA batteries, paying attention to the correct polarities (+ and –).**
3. **Replace the battery cover.**

**Follow these precautions to avoid leaking or cracking cells:**

- Place batteries in the remote control so they match the polarity : (+) to (+) and (–) to (–).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose the batteries to heat or a flame.

# remote control

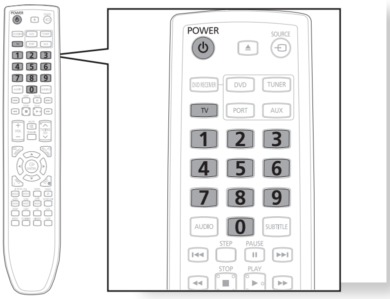
## SETTING THE REMOTE CONTROL

You can control certain functions of your TV with this remote control.

### When operating a TV with the remote control

1. Press the **TV** button to set the remote to TV mode.
2. Press the **POWER** button to turn on the TV.
3. While holding down the **POWER** button, enter the code corresponding to your brand of TV.
   - If there is more than one code listed for your TV in the table, enter one at a time to determine which code works.

   **Example : For a Samsung TV**
   While holding down the **POWER** button, use the **number** buttons to enter 00, 15, 16, 17 or 40.

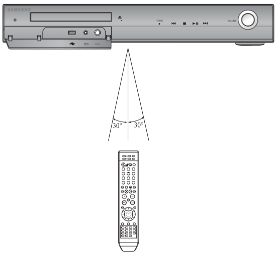


4. If the TV turns off, the setting is complete.
   - You can use the TV POWER, VOLUME, CHANNEL, and Numeric buttons (0~9).

- The remote control may not work on some brands of TV's. Also, some operations may not be possible depending on your brand of TV.
- If you do not set the remote control with the code for your brand of TV, the remote control will work on a Samsung TV by default.

### Operation Range of the Remote Control

The remote control can be used up to approximately 23 feet (7 meters) in a straight line.
It can also be operated at a horizontal angle of up to 30° from the remote control sensor.



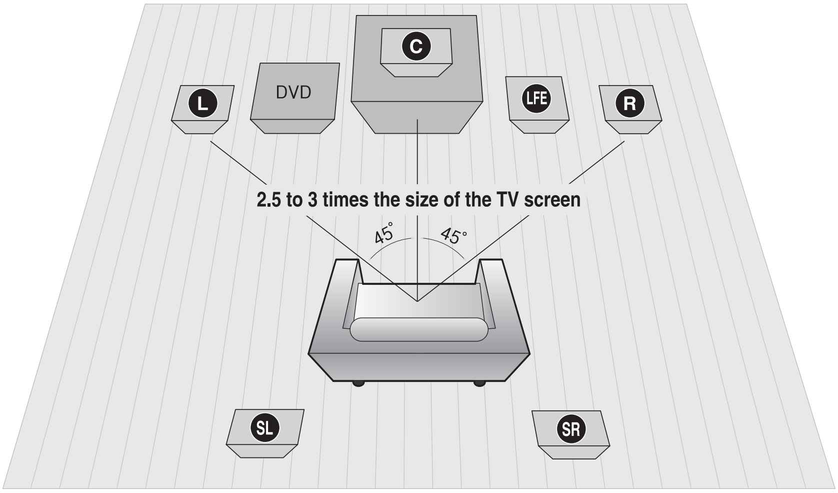
# TV Brand Code List

| No. | Brand | Code | No. | Brand | Code |
|---|---|---|---|---|---|
| 1 | Admiral (M.Wards) | 56, 57, 58 | 44 | MTC | 18 |
| 2 | A Mark | 01, 15 | 45 | NEC | 18, 19, 20, 40, 59, 60 |
| 3 | Anam | 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14 | 46 | Nikei | 03 |
| | | | 47 | Onking | 03 |
| 4 | AOC | 01, 18, 40, 48 | 48 | Onwa | 03 |
| 5 | Bell & Howell (M.Wards) | 57, 58, 81 | 49 | Panasonic | 06, 07, 08, 09, 54, 66, 67, 73, 74 |
| 6 | Brocsonic | 59, 60 | 50 | Penney | 18 |
| 7 | Candle | 18 | 51 | Philco | 03, 15, 17, 18, 48, 54, 59, 62, 69, 90 |
| 8 | Cetronic | 03 | 52 | Philips | 15, 17, 18, 40, 48, 54, 62, 72 |
| 9 | Citizen | 03, 18, 25 | 53 | Pioneer | 63, 66, 80, 91 |
| 10 | Cinema | 97 | 54 | Portland | 15, 18, 59 |
| 11 | Classic | 03 | 55 | Proton | 40 |
| 12 | Concerto | 18 | 56 | Quasar | 06, 66, 67 |
| 13 | Contec | 46 | 57 | Radio Shack | 17, 48, 56, 60, 61, 75 |
| 14 | Coronado | 15 | 58 | RCA/Proscan | 18, 59, 67, 76, 77, 78, 92, 93, 94 |
| 15 | Craig | 03, 05, 61, 82, 83, 84 | 59 | Realistic | 03, 19 |
| 16 | Croslex | 62 | 60 | Sampo | 40 |
| 17 | Crown | 03 | 61 | Samsung | 00, 15, 16, 17, 40, 43, 46, 47, 48, 49, 59, 60, 98 |
| 18 | Curtis Mates | 59, 61, 63 | | | |
| 19 | CXC | 03 | 62 | Sanyo | 19, 61, 65 |
| 20 | Daewoo | 02, 03, 04, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 34, 35, 36, 48, 59, 90 | 63 | Scott | 03, 40, 60, 61 |
| | | | 64 | Sears | 15, 18, 19 |
| 21 | Daytron | 40 | 65 | Sharp | 15, 57, 64 |
| 22 | Dynasty | 03 | 66 | Signature 2000 (M.Wards) | 57, 58 |
| 23 | Emerson | 03, 15, 40, 46, 59, 61, 64, 82, 83, 84, 85 | 67 | Sony | 50, 51, 52, 53, 55 |
| 24 | Fisher | 19, 65 | 68 | Soundesign | 03, 40 |
| 25 | Funai | 03 | 69 | Spectricon | 01 |
| 26 | Futuretech | 03 | 70 | SSS | 18 |
| 27 | General Electric (GE) | 06, 40, 56, 59, 66, 67, 68 | 71 | Sylvania | 18, 40, 48, 54, 59, 60, 62 |
| 28 | Hall Mark | 40 | 72 | Symphonic | 61, 95, 96 |
| 29 | Hitachi | 15, 18, 50, 59, 69 | 73 | Tatung | 06 |
| 30 | Inkel | 45 | 74 | Techwood | 18 |
| 31 | JC Penny | 56, 59, 67, 86 | 75 | Teknika | 03, 15, 18, 25 |
| 32 | JVC | 70 | 76 | TMK | 18, 40 |
| 33 | KTV | 59, 61, 87, 88 | 77 | Toshiba | 19, 57, 63, 71 |
| 34 | KEC | 03, 15, 40 | 78 | Vidtech | 18 |
| 35 | KMC | 15 | 79 | Videch | 59, 60, 69 |
| 36 | LG (Goldstar) | 01, 15, 16, 17, 37, 38, 39, 40, 41, 42, 43, 44 | 80 | Wards | 15, 17, 18, 40, 48, 54, 60, 64 |
| 37 | Luxman | 18 | 81 | Yamaha | 18 |
| 38 | LXI (Sears) | 19, 54, 56, 59, 60, 62, 63, 65, 71 | 82 | York | 40 |
| 39 | Magnavox | 15, 17, 18, 48, 54, 59, 60, 62, 72, 89 | 83 | Yupiteru | 03 |
| 40 | Marantz | 40, 54 | 84 | Zenith | 58, 79 |
| 41 | Matsui | 54 | 85 | Zonda | 01 |
| 42 | MGA | 18, 40 | 86 | Dongyang | 03, 54 |
| 43 | Mitsubishi/MGA | 18, 40, 59, 60, 75 | | | |

# connections

This section involves various methods of connecting the Digital Home Cinema to other external components.
Before moving or installing the product, be sure to turn off the power and disconnect the power cord.

## CONNECTING THE SPEAKERS



### Position of the DVD Player

Place it on a stand or cabinet shelf.

### Selecting the Listening Position

The listening position should be located about 2.5 to 3 times the distance of the TV's screen size away from the TV.
Example : For 32" TV's 2~2.4m (6~8feet)
For 55" TV's 3.5~4m (11~13feet)

### Front Speakers L R

Place these speakers in front of your listening position, facing inwards (about 45°) toward you.

Place the speakers so that their tweeters will be at the same height as your ear.

Align the front face of the front speakers with the front face of the center speaker or place them slightly in front of the center speakers.

### Center Speaker C

It is best to install it at the same height as the front speakers. You can also install it directly over or under the TV.

### Rear Speakers SL SR

Place these speakers behind your listening position. If there isn't enough room, place these speakers so they face each other. Place them about 60 to 90cm (2 to 3feet) above your ear, facing slightly downward.

* Unlike the front and center speakers, the rear speakers are used to handle mainly sound effects and sound will not come from them all the time.

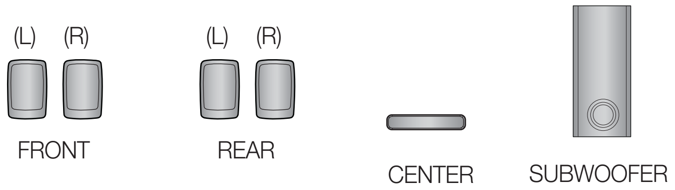
*** Sound will be heard from the rear speakers in DVD 5.1-CH or Dolby Pro Logic II mode only.**

### Subwoofer LFE

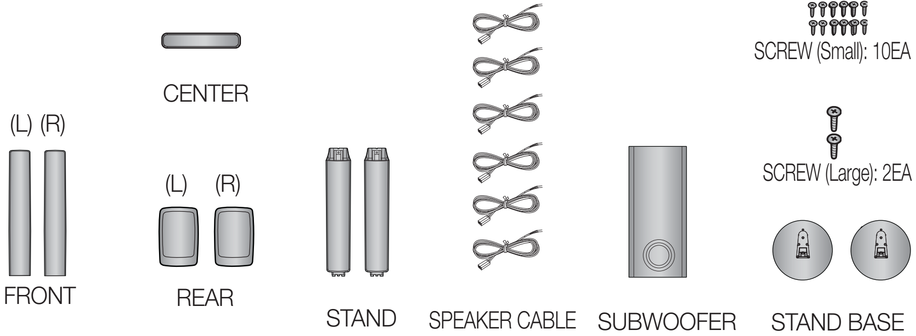
The position of the subwoofer is not so critical. Place it anywhere you like.

## Speaker Components

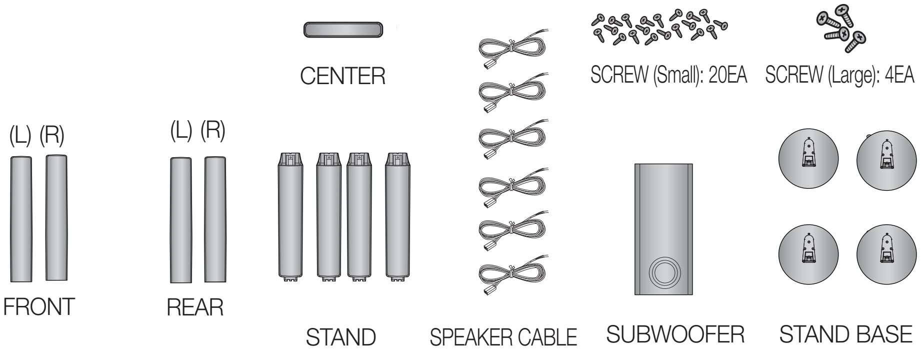
### HT-Z320


(L)
(R)
FRONT
(L)
(R)
REAR
CENTER
SUBWOOFER

### HT-TZ322

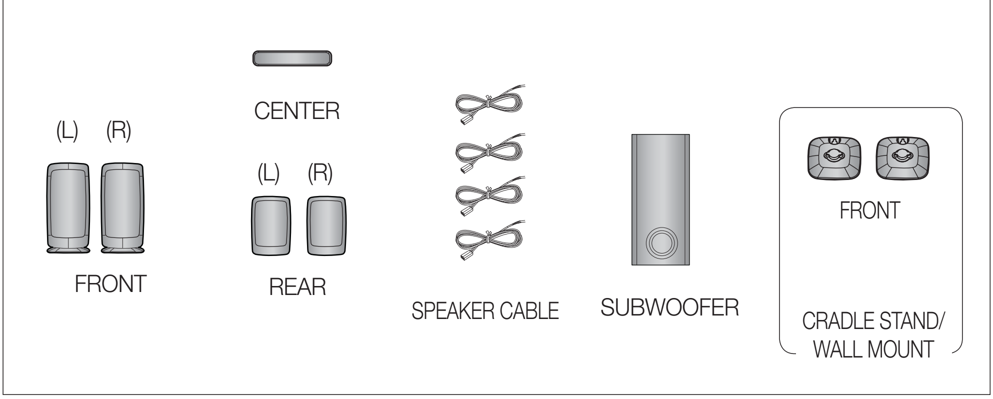

CENTER
(L) (R)
FRONT
(L)
(R)
REAR
STAND
SPEAKER CABLE
SUBWOOFER
SCREW (Small): 10EA
SCREW (Large): 2EA
STAND BASE

### HT-TZ325

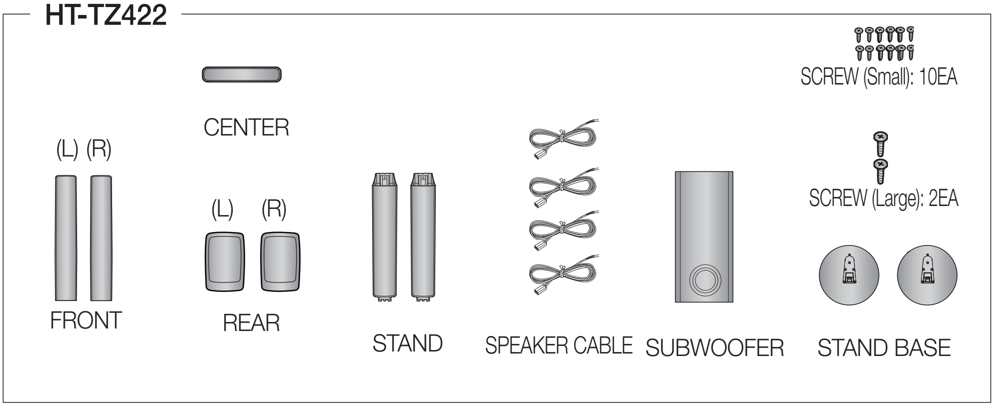

CENTER
(L) (R)
FRONT
(L) (R)
REAR
STAND
SPEAKER CABLE
SCREW (Small): 20EA
SCREW (Large): 4EA
SUBWOOFER
STAND BASE

## Speaker Components

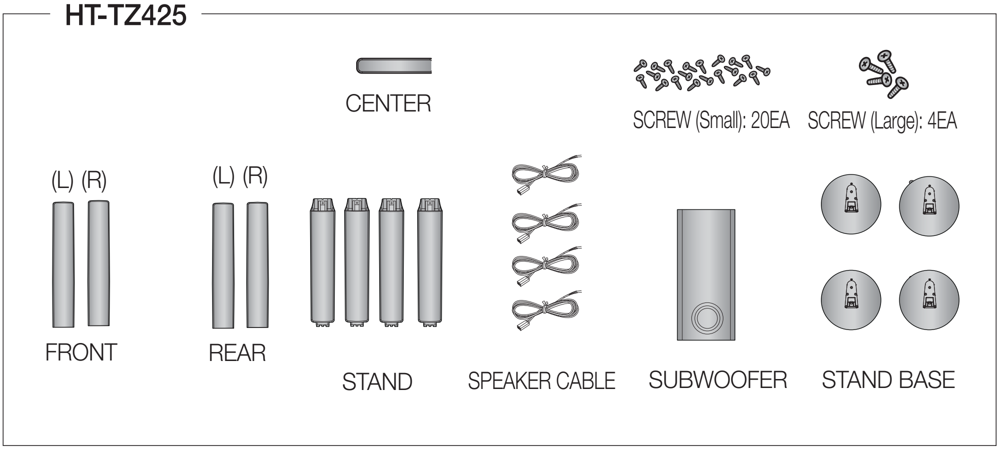
### HT-Z420


CENTER
(L) (R)
FRONT
(L) (R)
REAR
SPEAKER CABLE
SUBWOOFER
FRONT
CRADLE STAND/
WALL MOUNT

### HT-TZ422


SCREW (Small): 10EA
CENTER
(L) (R)
SCREW (Large): 2EA
(L) (R)
FRONT
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

### HT-TZ425

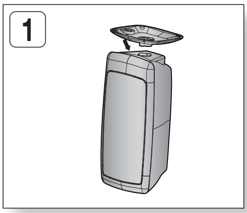

CENTER
SCREW (Small): 20EA
SCREW (Large): 4EA
(L) (R)
(L) (R)
FRONT
REAR
STAND
SPEAKER CABLE
SUBWOOFER
STAND BASE

## Installing the Cradle Stand

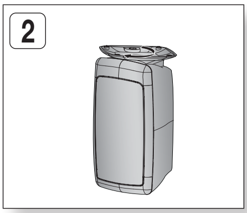
HT-Z420 - Front Speakers

<Front>

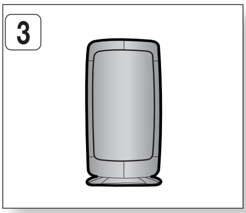
1. Insert the stand so that it fits into the hole as described in the figure.



2. Turn the stand clockwise to lock it. (Turning it counter-clockwise will loosen it.)



3. This is the completion of the stand installation.



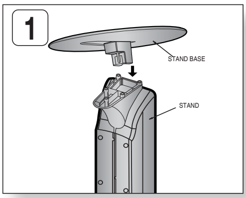
## Front/Rear Tallboy Stand

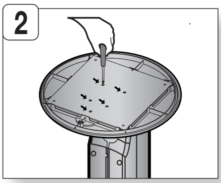
### How to Install the Speaker on the Stand

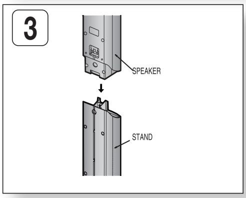
HT-TZ322/TZ422 - Front Speakers

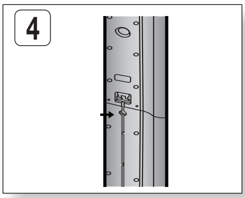
HT-TZ325/TZ425 - Front/Rear Speakers

1. Turn the **STAND** upside-down and connect it to the **STAND BASE**.
2. Insert five small **SCREWS** into the five holes marked with arrows using a screwdriver as shown in the illustration.
3. Connect upper SPEAKER to the assembled STAND.
4. Insert another large **SCREW** into the hole on the rear of the speaker marked with arrow using a screwdriver.









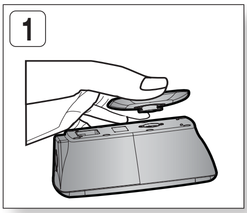
## Front Speakers Wall Mount Installation

### Installing the Wall Mount

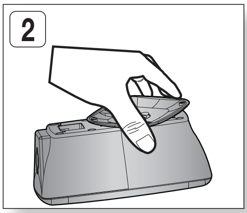
HT-Z420 - Front Speakers

<Front>

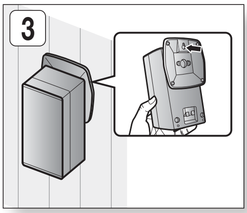
1. Insert the wall mount so that it fits into the rear hole of the speaker as in the figure.



2. Turn the wall mount counter clockwise to fix it. (This is in the reverse direction of the cradle stand installation.)

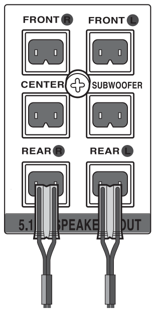


3. Use the wall mount hole (bracket) to install the speaker on the wall.

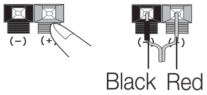


- Make sure the speaker is hung properly to avoid accidents or injury.

## Connecting the Front, Center,Rear and Subwoofer Speakers

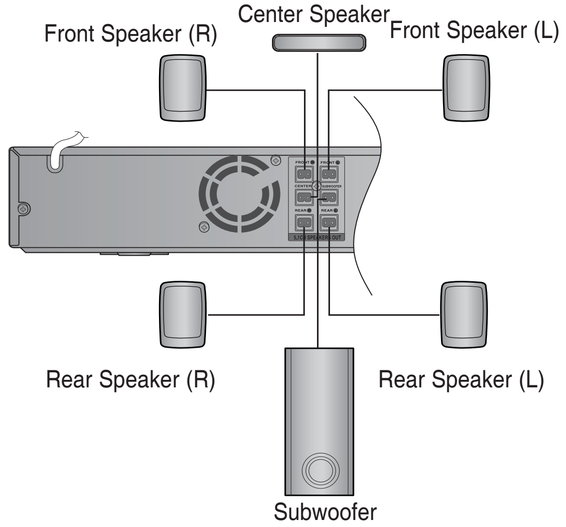

FRONT R
FRONT L
CENTER
SUBWOOFER
REAR R
REAR L
5.1 SPEAKE OUT

1. Press down the terminal tab on the back of the speaker.
2. Insert the black wire into the black terminal (–) and the red wire into the red terminal(+), and then release the tab.

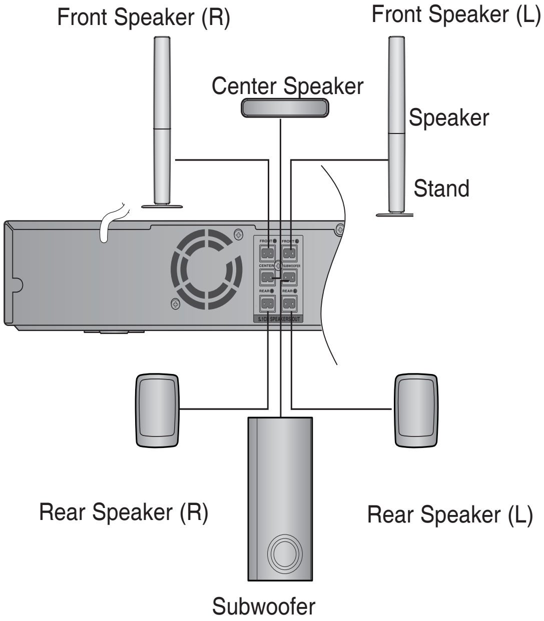


3. Connect the other end of the speaker cable to the connecting jacks on the back of the Home Cinema and Wireless Receiving Module.
   - Make sure the colors of the connecting plugs match the connecting jacks.

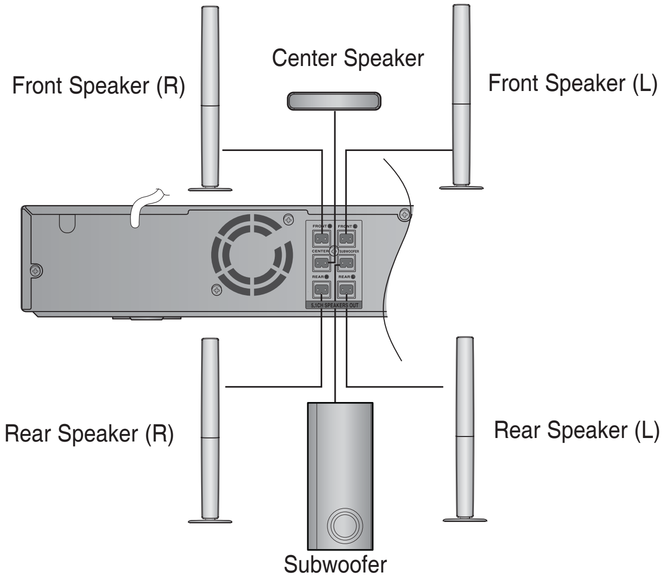
HT-Z320


Front Speaker (R)
Center Speaker
Front Speaker (L)
Rear Speaker (R)
Rear Speaker (L)
Subwoofer

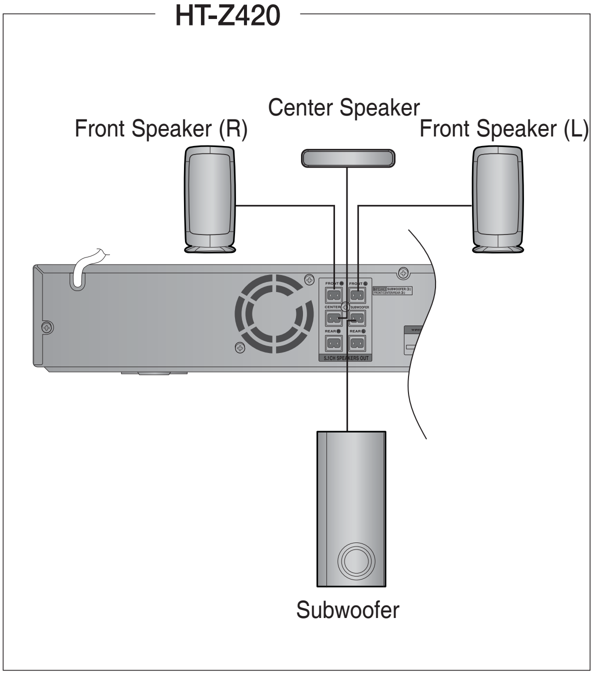
HT-TZ322

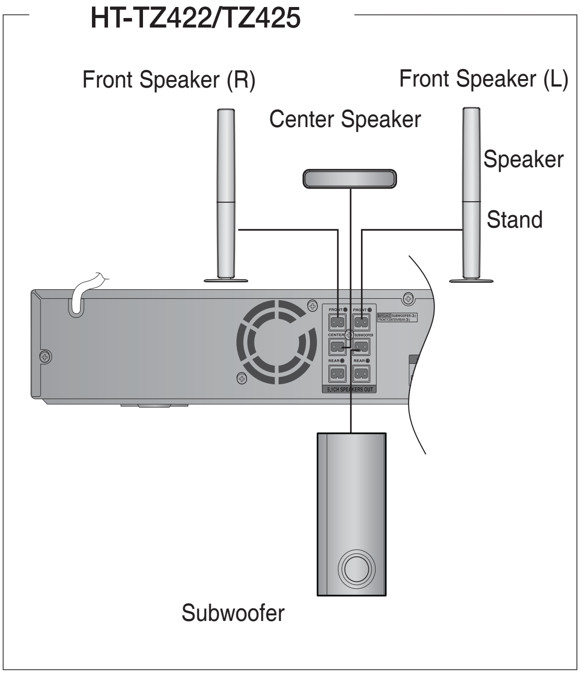

Front Speaker (R)
Front Speaker (L)
Center Speaker
Speaker
Stand
Rear Speaker (R)
Rear Speaker (L)
Subwoofer

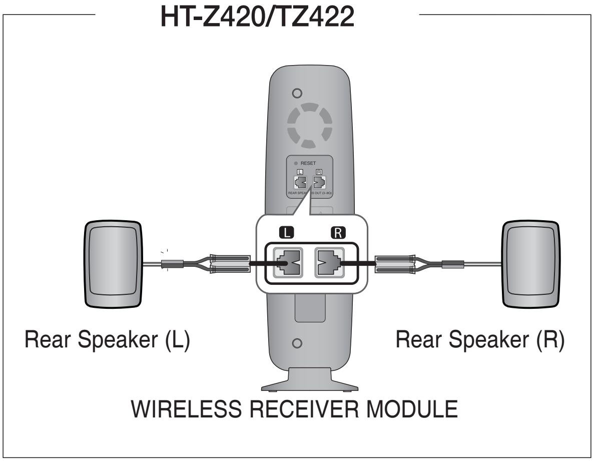
HT-TZ325

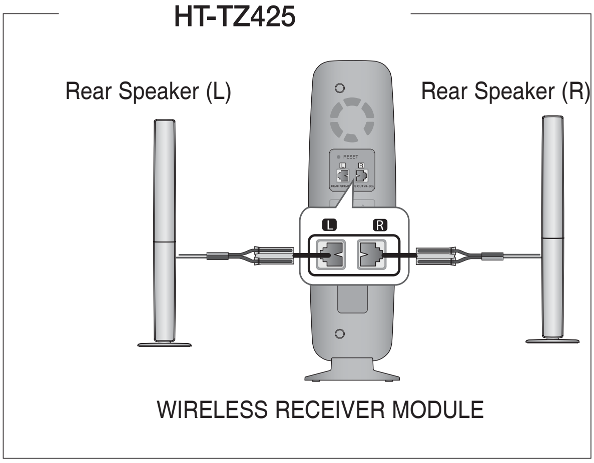

Front Speaker (R)
Center Speaker
Front Speaker (L)
Rear Speaker (R)
Rear Speaker (L)
Subwoofer

## Connecting the Front, Rear, Center and Subwoofer Speakers


HT-Z420
Front Speaker (R)
Center Speaker
Front Speaker (L)
Subwoofer


HT-TZ422/TZ425
Front Speaker (R)
Front Speaker (L)
Center Speaker
Speaker
Stand
Subwoofer


HT-Z420/TZ422
RESET
L
R
Rear Speaker (L)
Rear Speaker (R)
WIRELESS RECEIVER MODULE

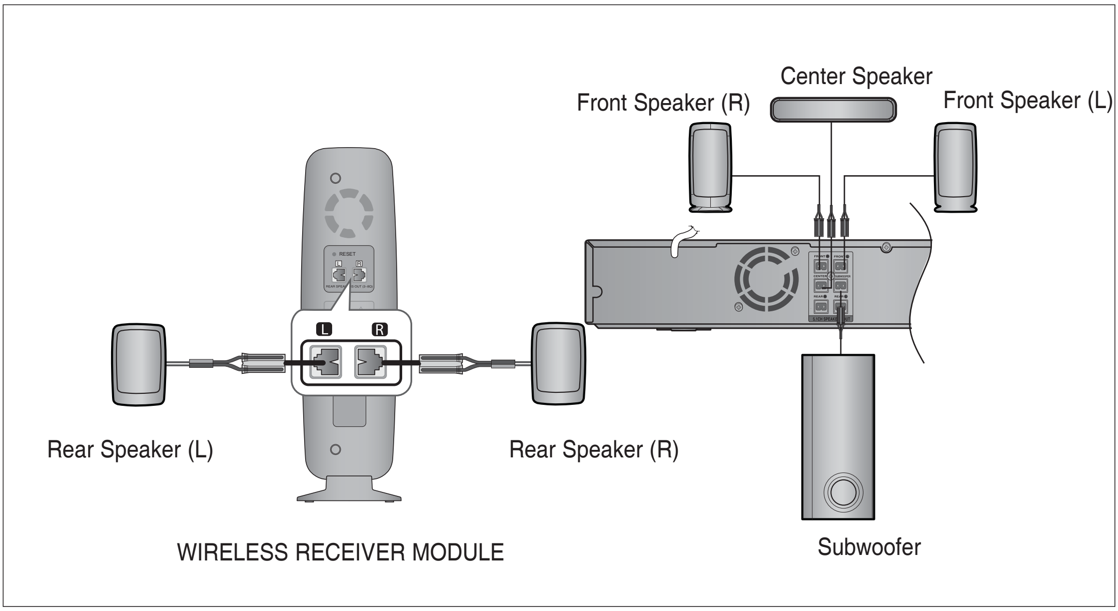

HT-TZ425
Rear Speaker (L)
Rear Speaker (R)
RESET
L
R
WIRELESS RECEIVER MODULE

- Do not let children play with or near the speakers. They could get hurt if the speaker falls.
- When connecting the speaker wires to the speakers, make sure that the polarity (+/–) is correct.
- Keep the subwoofer speaker out of the reach of children so as to prevent them from inserting their hands or alien substances into the duct (hole) of the subwoofer speaker.
- Do not hang the subwoofer on the wall through the duct (hole).

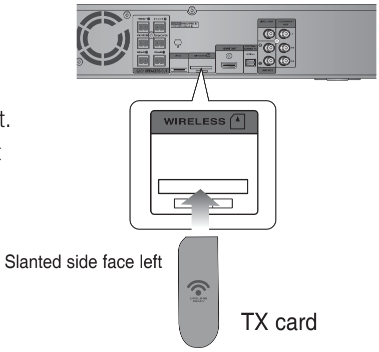
- If you place a speaker near your TV set, screen color may be distorted because of the magnetic field generated by the speaker. If this occurs, place the speaker away from your TV set.

# CONNECTING THE WIRELESS RECEIVING AMPLIFIER

## Wireless Receiving Module (SWA-4100)


Center Speaker
Front Speaker (R)
Front Speaker (L)
RESET
L
R
Rear Speaker (L)
Rear Speaker (R)
WIRELESS RECEIVER MODULE
Subwoofer

1. Connect the front, Center and Subwoofer speakers to the DVD Player, referring to pages 23~24.
2. With the DVD Player turned off, insert the TX card into the TX Card Connection (WIRELESS) on the back of the main unit.
    - Hold the TX card so that the slanted side faces to the left and insert the card into the port.
    - The TX card enables communication between the main unit and the wireless receiver.
3. Connect the left and right rear speakers to the wireless receiving module.
4. Plug the power cord of the wireless receiving module in the wall outlet


WIRELESS
Slanted side face left
TX card

- HT-Z420/TZ422/TZ425 doesn't have rear speaker connectors on the main unit.The rear speakers are connected to the Wireless module.
- The rear speakers for HT-Z320/TZ322/TZ325 can also be connected to the Wireless module (SWA-4100) if you purchase it separately.

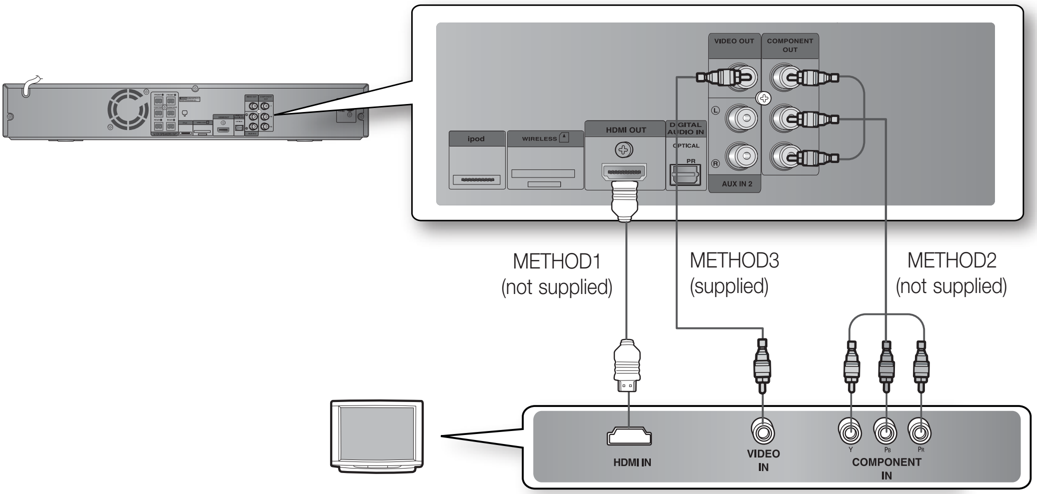
- **The HT-Z420/TZ422/TZ425 only can connect with wireless receiving module (SWA-4100).**

- Place the wireless receiver module at the rear of the listening position. If the wireless receiver module is too close to the main unit, some sound interruption may be heard due to interference.
- If you use a device such as a microwave oven, wireless LAN Card, Bluetooth equipment, or any other device that uses the same frequency (2.4GHz) near the system, some sound interruption may be heard due to interference.
- The transmission range from the main unit to the wireless receiving module is about 33 feet (10m), but may vary depending on your operating environment. If a steel-concrete wall or metallic wall is between the main unit and the wireless receiver module, the system may not operate at all, because the radio wave cannot penetrate metal.
- If the main unit doesn't make wireless connection, the system needs ID Setting between main unit and wireless receiver module. With the main unit turned off, press the remote control's number button buttons "0"→"1"→"3"→"5" and the main unit will turn on.With the wireless receiver module turned on, press "ID SET" button on the back of the unit for 5 seconds.

- Do not insert any other card except the provided TX card.
  If a different TX card is used, the product may be damaged or the card may not be removed easily.
- Do not insert the TX card upside down or in the reverse direction.
- Insert the TX card when the DVD Player is turned off. Inserting the card when it is turned on may cause a problem.
- If the TX Card is inserted and wireless receiving module setting is complete, sound is not output from the Rear Speaker connectors on the main unit.
- The wireless receiving antenna is built into the wireless receiver module. Keep the unit away from water and moisture.
- For optimal listening performance, make sure that the area around the wireless receiver module location is clear of any obstructions.
- **If no sound is heard from the wireless rear speakers, switch the mode to DVD 5.1 channel or Dolby ProLogic II .**
- In 2-CH mode, no sound will be heard from the wireless rear speakers.

# CONNECTING THE VIDEO OUT TO YOUR TV

Choose one of the three methods for connecting to a TV.


VIDEO OUT
COMPONENT OUT
ipod
WIRELESS
HDMI OUT
DIGITAL AUDIO IN
OPTICAL
PR
L
R
AUX IN 2
METHOD1
(not supplied)
METHOD3
(supplied)
METHOD2
(not supplied)
HDMI IN
VIDEO IN
Y
PB
PR
COMPONENT IN

## METHOD 1 : HDMI(Best)

Connect the HDMI cable (not supplied) from the HDMI OUT jack on the back of the DVD Home Cinema to the HDMI IN jack on your TV.HDMI enables you to view movies in High Definition on your HDTV.

## METHOD 2 : Component Video(Better)

If your television is equipped with Component Video inputs, connect a component video cable(not supplied) from the Component Video Output (Pr, Pb and Y) Connectors on the back of the main unit to the Component Video Input Connectors on your TV.

## METHOD 3 : Composite Video(Good)

Connect the supplied video cable from the VIDEO OUT jack on the back of the main unit to the VIDEO IN jack on your TV.

- Resolutions available for the HDMI output are 480p, 720p,1080i/1080p.See page 29 for resolution setting.
- This product operates in Interlace scan mode (480i) for Component Output.
- After making the video connection, set the Video input source on your TV to match the corresponding Video output (HDMI, Component or Composite) on your Home cinema. See your TV owner's manual for more information on how to select the TV's Video Input source.
- If you use an HDMI cable to connect a Samsung TV to the main unit, you can operate the Home Cinema using the TV's remote control. (This is only available with SAMSUNG TV's that support Anynet+(HDMI-CEC).)
- If your TV has the Anynet+ HDMI-CEC logo, then it supports the Anynet+ function.

## HDMI Auto Detection Function

The player's video output will automatically change to HDMI mode when connecting an HDMI cable while power is on. For possible HDMI resolutions, see page 29.

- **HDMI (High Definition Multimedia Interface)**
  HDMI is an interface that enables the digital transmission of video and audio data with just a single connector. Using HDMI, the DVD Home Cinema transmits a digital video and audio signal and displays a vivid picture on a TV having an HDMI input jack.
- **HDMI connection description**
  HDMI connector - Supports video and digital audio data.
  - HDMI outputs only a pure digital signal to the TV.
  - If your TV does not support HDCP (High-bandwidth Digital Content Protection), random noise appears on the screen.
- **Why does Samsung use HDMI?**
  Analog TV's require an analog video/audio signal. However, when playing a DVD, the data transmitted to a TV is digital. Therefore either a digital-to-analog converter (in the DVD Home Cinema) or an analog-to-digital converter (in the TV) is required. During this conversion, the picture quality is degraded due to noise and signal loss. HDMI technology is superior because it requires no D/A conversion and is a pure digital signal from the player to your TV.
- **What is the HDCP?**
  HDCP (High-band width Digital Content Protection) is a system for protecting DVD content outputted via HDMI from being copied. It provides a secure digital link between a video source (PC, DVD. etc) and a display device (TV, projector. etc). Content is encrypted at the source device to prevent unauthorized copies from being made.
- **What is Anynet+?**
  Anynet+ is a convenient function that offers linked operation of this unit through Samsung TV's with the Anynet+ feature.
  - If your Samsung TV has an Anynet+ HDMI-CEC logo, then it supports the Anynet+ function.
  - If you turn on the player and insert a disc, the player will start playing the disc, and the TV will turn on automatically and switch to HDMI mode.
  - If you turn on the player and press the Play button with a disc already inserted, the TV will immediately turn on and switch to HDMI mode.

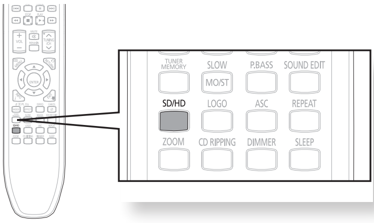
# HDMI FUNCTION

## Resolution Selection

This function allows the user to select the screen resolution for HDMI output.

In Stop mode, press and hold the **SD/HD** (Standard Definition/High Definition) button on the remote control until the resolution changes.

- Resolutions available for the HDMI output are 480p, 720p, 1080i/1080p.
- SD(Standard Definition) resolution is 480p and HD (High Definition) resolution is 720p, 1080i/1080p.



- If the TV does not support the configured resolution, you will not be able to see the picture properly.
- When a HDMI cable is connected, composite(Video) and component video signals are not output.
- See your TV owner's manual for more information on how to select the TV's Video Input source.

**Why use HDMI (High Definition Multimedia Interface)?**

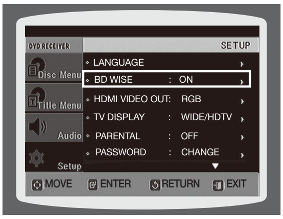
This device transmits a DVD video signal digitally without the process of converting to Analog. You will get sharper digital pictures when using an HDMI connection.

## BD Wise (Samsung products only)

You can select to use the BD Wise menu only if the Samsung home cinema is connected to a Samsung TV that supports BD Wise using an HDMI cable.

- **What is BD Wise?**
  BD Wise automatically adjusts BD Wise-compliant Samsung products to the optimal settings between them. This feature is enabled only if BD Wise-compliant Samsung products are connected to each other using an HDMI cable.
- **To use BD Wise**
  1. Use an HDMI cable to connect the Samsung home cinema to a BD Wise-compliant Samsung TV.
  2. Set each BD Wise menu of the Samsung home cinema and the Samsung TV to On, respectively.
     - This will optimize the picture quality according to the content (In the disc, DVD, etc) that you want to play.
     - This will also optimize the picture quality between the home cinema and your BD Wise-compliant Samsung TV.

- If you want to change the resolution in BD Wise mode, you must set BD mode to Off in advance.
- If you set the BD Wise mode to off, the resolution of the connected TV will be adjusted to its maximum resolution automatically.
- BD Wise will be disabled if the player is connected to a device that does not support BD Wise.



BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

## HDMI FUNCTION

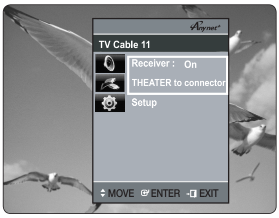
### Using Anynet+(HDMI-CEC)

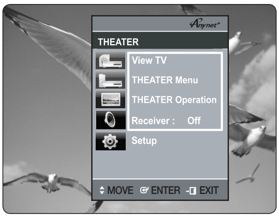
Anynet+ is a function that enables you to control other Samsung Devices with your Samsung TV's remote control. Anynet + can be used by connecting this Home Cinema to a SAMSUNG TV using a HDMI Cable. This is only available with SAMSUNG TV's that support Anynet+.

**With Anynet+**

You can operate this unit, power on your TV, or watch a movie by pressing the Play button on your Samsung TV's remote control.

1. Connect the main unit of the Home Cinema to a Samsung TV with an HDMI cable. (See page 27)
2. Set the Anynet+ function on your TV.
   (See the TV instruction manual for more information.)
   - You can operate the Home Cinema by using the TV remote control. (Available TV buttons : ◀◀, ■, ▶, ▶▶, ▲,▼ and ◀,▶ buttons, ⓪ ~ ⑨ button)





### If you select the TV

Set the Anynet+(HDMI-CEC) to On by pressing the Anynet+ button on your TV remote control.

- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

### If you select the Cinema

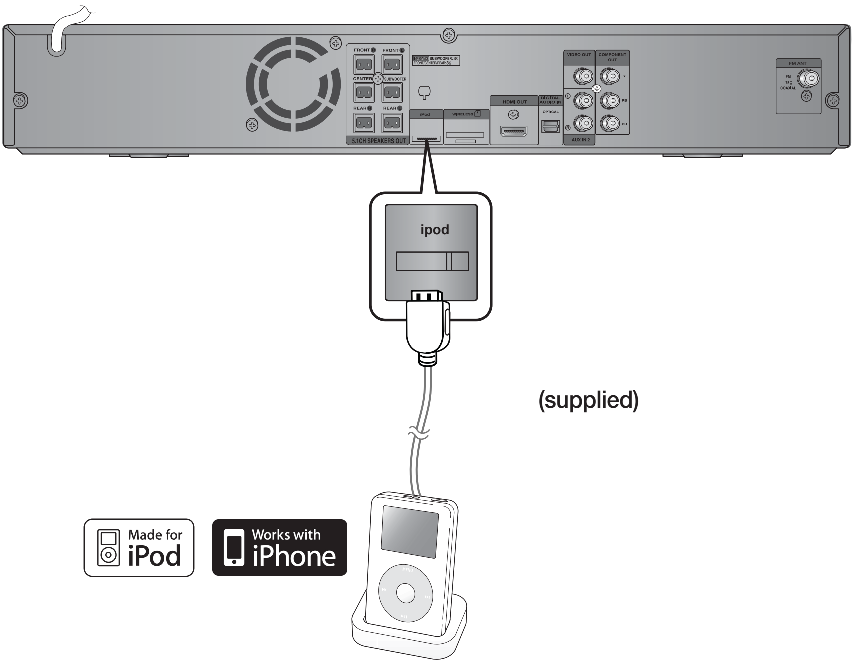
Select **Cinema to connect** and set the option of each item below.

- **View TV** : If Anynet+(HDMI CEC) is set to on and you select View TV, the home cinema will automatically switch to digital in mode.
- **Cinema Menu** : You can access and control the Home cinema menu.
- **Cinema Operation** : The Home Cinema disc playback information will be displayed. You can control the Disc operation of the Home Cinema such as title, chapter and subtitle change.
- **Receiver : On** : You can listen to audio through the Home Cinema.
- **Receiver : Off** : You can listen to audio through the TV.

- If you choose 'View TV' and want to listen to TV sound through Digital In, you have to connect an optical cable between the TV and the Home Cinema.

# CONNECTING AN iPod

You can listen to audio from an iPod through the main unit. For iPod operation with this Home Cinema, see this page and page 50.

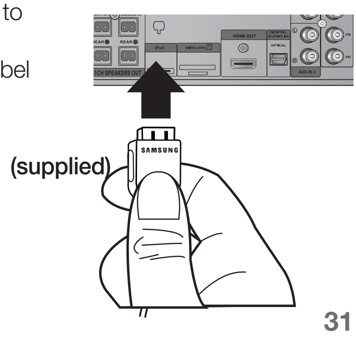

FRONT
FRONT
CENTER
SUBWOOFER
REAR
REAR
5.1CH SPEAKERS OUT
iPod
WIRELESS
HDMI OUT
DIGITAL AUDIO IN
OPTICAL
VIDEO OUT
COMPONENT OUT
AUX IN 2
FM ANT
ipod
(supplied)

Made for iPod

Works with iPhone

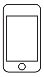
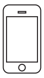
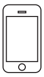
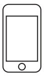
1. Connect the iPod dock connector to the iPod jack on the DVD home cinema.
2. Press the **PORT** button on the remote control to select **A iPod** to listen to music, and **V iPod** to view videos.
   - You can also use the **FUNCTION** button on the main unit.
     The mode switches as follows :
     **DVD/CD → D-IN → AUX 1 → AUX 2 → USB → A iPod → V iPod → TUNER.**

- As the cable ports are close together, be sure to remove TX card before disconnecting the iPod docking cable.
- A iPod is for audio iPod, V iPod is for video iPod.
- Depending on the type of iPod, you may need to insert one of the dock slots which are provided by Apple when you purchase the iPod. (see next page).
- Adjust the volume to a moderate level before you connect your iPod and DVD home cinema.
- When the unit is powered on and you connect an iPod, the unit will charge your iPod's battery.
- You must have the VIDEO output connected to your TV to your TV view iPod video.
- Make sure to connect the dock connector so that the label "**SAMSUNG**" faces upward.


SAMSUNG
(supplied)

# connections

## iPod models that are available to HT-Z320/TZ322/TZ325/Z420/TZ422/TZ425

| | | |
|---|---|---|
| **iPod nano** 2nd<br>generation(aluminum)<br>2GB 4GB 8GB | **iPod** 5th generation<br>(video) 30GB 60GB<br>80GB | **iPod classic**<br>80GB 120GB 160GB |
| **iPod nano** 3rd<br>generation (video)<br>4GB 8GB | **iPod nano**<br>4th generation(video)<br>8GB 16GB | **iPod nano**<br>1st generation<br>1GB 2GB 4GB |
|  **iPod touch**<br>1st generation<br>4GB 16GB 32GB |  **iPhone**<br>4GB 8GB 16GB |  **iPhone 3G**<br>8GB 16GB |
|  **iPod touch**<br>2nd generation<br>8GB 16GB 32GB | | |

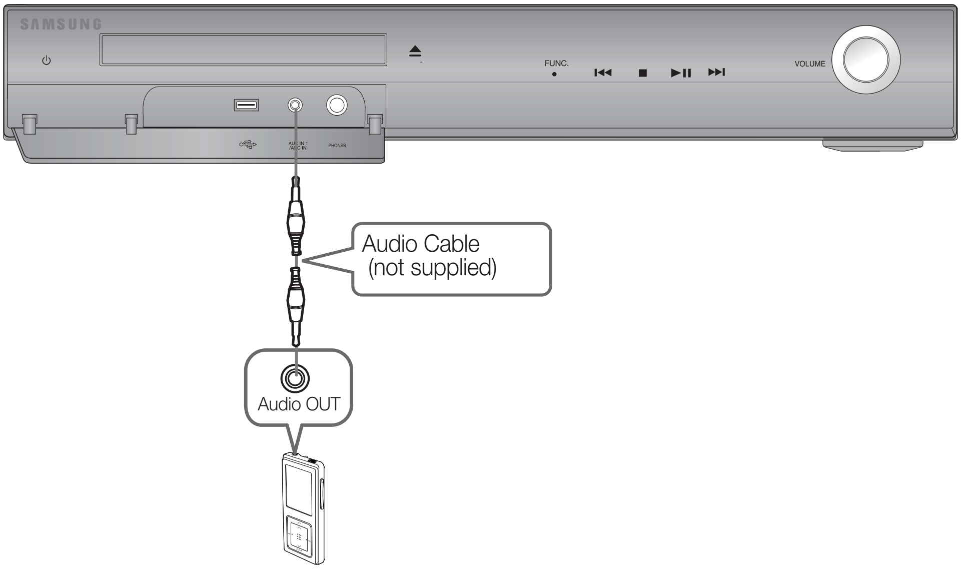
- "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
- "Works with iPhone" means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

**iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPhone is a trademark of Apple Inc.**

# CONNECTING AUDIO FROM EXTERNAL COMPONENTS

## AUX1 : Connecting an External Component/MP3 player

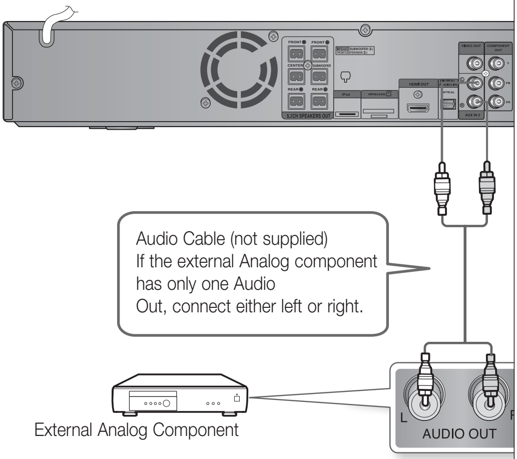
Components such as an MP3 Player.


SAMSUNG
FUNC.
VOLUME
PHONES
Audio Cable
(not supplied)
Audio OUT

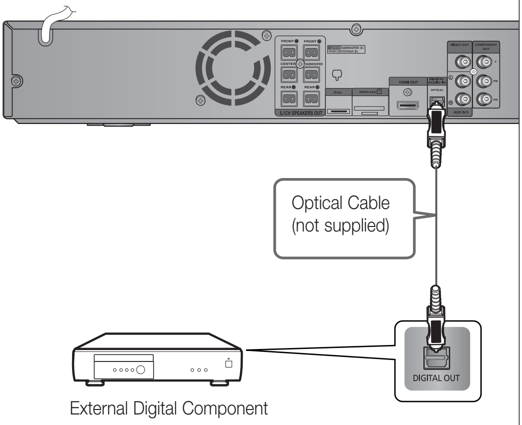
1. Connect AUX IN 1 (Audio) on the Home Cinema to the Audio Out of the external component/ MP3 player.

2. Press the **AUX** button on the remote control to select **AUX1** input.
    - You can also use the **FUNCTION** button on the main unit.
      The mode switches as follows :
      **DVD/CD ➞ D-IN ➞ AUX 1 ➞ AUX 2 ➞ USB ➞ A iPod ➞ V iPod ➞ TUNER.**

AUX2 : Rear Panel


Audio Cable (not supplied)
If the external Analog component has only one Audio Out, connect either left or right.
External Analog Component
L
R
AUDIO OUT

OPTICAL : Rear Panel


Optical Cable (not supplied)
External Digital Component
DIGITAL OUT

## AUX2 : Connecting an External Analog Component

Analog signal components such as a VCR.

1. Connect AUX IN 2 (Audio) on the Home Cinema to the Audio Out of the external Analog component.
- Be sure to match connector colors.

2. Press the **AUX** button on the remote control to select **AUX 2** input.
- You can also use the **FUNCTION** button on the main unit.
  The mode switches as follows : **DVD/CD → D-IN → AUX 1 → AUX 2 → USB → A iPod → V iPod → TUNER.**

- You can connect the Video Output jack of your VCR to the TV, and connect the Audio Output jacks of the VCR to this product.

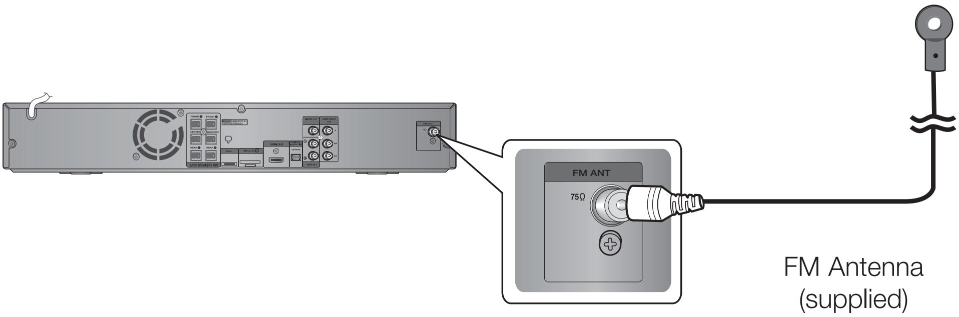
## OPTICAL : Connecting an External Digital Component

Digital signal components such as a Cable Box/Satellite receiver (Set-Top Box).

1. Connect the Digital Input (OPTICAL) on the Home Cinema to the Digital Output of the external digital component.
2. Press the **AUX** button on the remote control to select **DIGITAL IN**.
- You can also use the **FUNCTION** button on the main unit to select **D-IN**.
  The mode switches as follows : **DVD/CD → D-IN → AUX 1 → AUX 2 → USB → A iPod → V iPod → TUNER.**

# CONNECTING THE FM ANTENNA

1. Connect the FM antenna supplied to the FM 75Ω Coaxial Jack.
2. Slowly move the antenna wire around until you find a location where reception is good, then fasten it to a wall or other rigid surface.

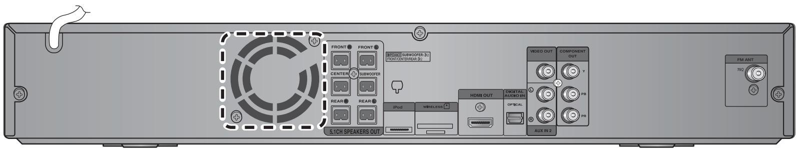

FM ANT
75Ω
FM Antenna
(supplied)

- This unit does not receive AM broadcasts.

## Cooling Fan

The cooling fan supplies cool air to the unit to prevent overheating.
Please observe the following cautions for your safety.

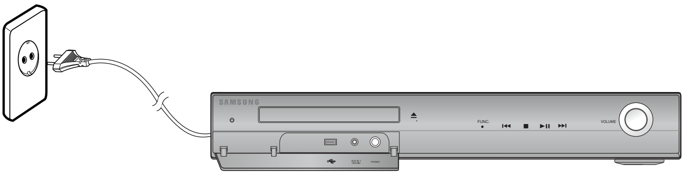
- Make sure the unit is well-ventilated. If the unit has poor ventilation, the temperature inside the unit may rise and may damage it.
- Do not obstruct the cooling fan or ventilation holes. (If the cooling fan or ventilation holes are covered with a newspaper or cloth, heat may build up inside the unit and fire may result.)


FRONT
FRONT
CENTER
SUBWOOFER
REAR
REAR
5.1CH SPEAKERS OUT
iPod
WIRELESS
HDMI OUT
OPTICAL
VIDEO OUT
COMPONENT OUT
AUX IN 2
FM ANT

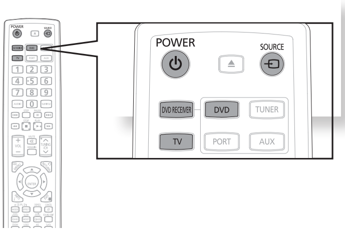
# before using your home cinema

The DVD Home Cinema's remote can be used to control Samsung TV's.

1. Plug the main unit's power cord into the AC power supply.


SAMSUNG
FUNC.
VOLUME

2. Press the **DVD RECEIVER** button to operate the DVD Home Cinema.

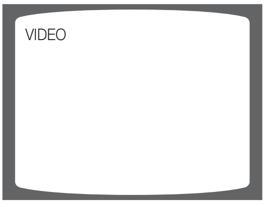

POWER
SOURCE
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX

3. Press the **FUNCTION** button on the main unit or **DVD** button on the remote to enable DVD/CD playback.

4. Press the **TV** button to set the remote to TV mode.

5. Press the **POWER** button to turn on your Samsung TV with this remote.

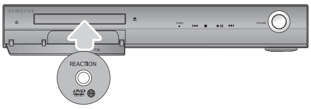
6. Press the **SOURCE** button to select VIDEO mode on your TV.

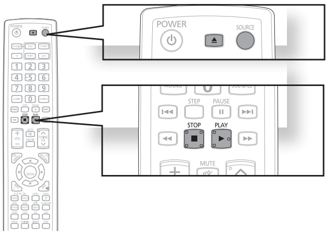


# DISC PLAYBACK

DVD CD

1. Press the **OPEN/CLOSE** (⏏) button to open the disc tray.
2. Load a disc.
   - Place a disc gently into the tray with the disc's label facing up.
3. Close the compartment by pressing the **OPEN/CLOSE** (⏏) button again.
   - Playback starts automatically.





### To stop playback, press the STOP (■) button during playback.

- If pressed once, **PRESS PLAY** is displayed and the stop position will be stored in memory. If the **PLAY** (▶) button or **ENTER** button is pressed, playback resumes from the stop position. (This function works only with DVDs.)
- If pressed twice, **STOP** is displayed, and if the **PLAY** (▶) button is pressed, playback starts from the beginning.

### To temporarily pause playback, press the PAUSE (⏸) button during playback.

- To resume playback, press the **PLAY** (▶) or **ENTER** button.

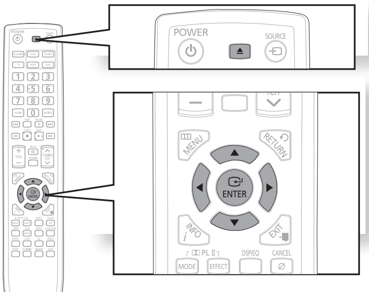
- Depending on the content of the disc, the initial screen may appear different.
- Pirated discs will not run in this player because they violate the CSS (Content Scrambling System : a copy protection system) recommendations.

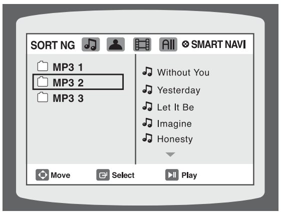
## MP3/WMA-CD PLAYBACK

Data CDs (CD-R, CD-RW) encoded in MP3/WMA format can be played.

MP3

1. Place the MP3/WMA disc on the disc tray.
   - The MP3/WMA menu screen will appear and playback will start.
   - The appearance of the menu depends on the MP3/WMA disc.
   - WMA-DRM files cannot be played.
2. In Stop mode, use the Cursor ▲,▼,◀,▶ button to select the album, and then press the **ENTER** button.
   - Use the Cursor ▲,▼ button to select the track.
3. To change the album, use the Cursor ▲,▼,◀,▶ button to select another album in Stop mode, and then press the **ENTER** button.
4. Press the **STOP** (■) button to stop playback.

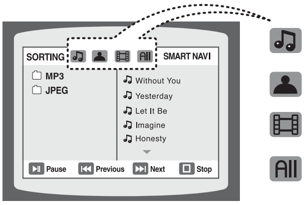

POWER
SOURCE
MENU
RETURN
ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT


SORT NG
All
SMART NAVI
MP3 1
MP3 2
MP3 3
Without You
Yesterday
Let It Be
Imagine
Honesty
Move
Select
Play

- Depending on the recording mode, some MP3/WMA-CDs may not play.
- Table of contents of a MP3-CD varies depending on the MP3/WMA track format recorded on the disc.

### To play a file icon in the screen,

- **Press the Cursor ▲,▼,◀,▶ button when it is in Stop mode and select a desired icon from the top part of the menu.**


SORTING
All
SMART NAVI
MP3
JPEG
Without You
Yesterday
Let It Be
Imagine
Honesty
Pause
Previous
Next
Stop

♫ **Music File Icon** : To play music files only, select the ♫ Icon.

👤 **Image File Icon** : To view image files only, select the 👤 Icon.

🎞 **Movie File Icon** : To view movie files only, select the 🎞 Icon.

All **All File Icon** : To view all files select the All Icon.

# JPEG FILE PLAYBACK

Images captured with a digital camera or camcorder, or JPEG files on a PC can be stored on a CD and then played back with this Home Cinema.

## Slide Mode

JPEG

Place the JPEG disc on the disc tray.

- Playback starts automatically. Each image is displayed for 5 seconds and then the next image is displayed.

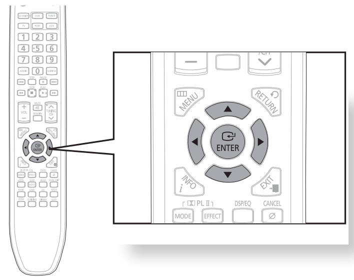
Press the ⏮,⏭ button to skip to the next slide.

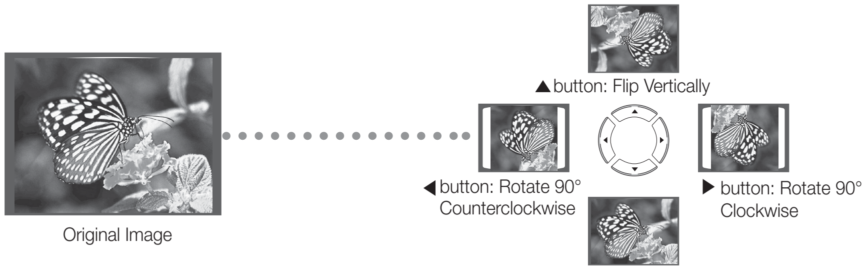
- Each time the button is pressed, the slide moves backward or forward.

## Rotate/Flip Function

JPEG

Press the Cursor ▲,▼,◀,▶ button during playback.


MENU
RETURN
ENTER
INFO
EXIT
DSP/EQ
CANCEL
MODE
EFFECT


Original Image
▲button: Flip Vertically
◀ button: Rotate 90° Counterclockwise
▶ button: Rotate 90° Clockwise
▼button: Flip Horizontally

- The maximum resolutions supported by this product are 5120 x 3480 (or 19.0 MPixel) for standard JPEG files and 2048 x 1536 (or 3.0 MPixel) for progressive image files.

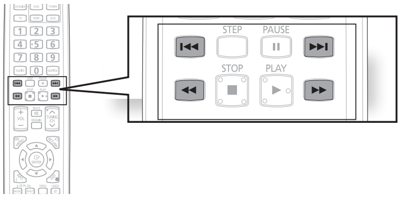
## DIVX PLAYBACK

The functions on this page apply to DivX disc playback.

### Skip Forward/Back

During playback, press the ⏮,⏭ button.

- Goes to the next file whenever you press the ⏭ button, if there are over 2 files in the disc.
- Goes to the previous file whenever you press the ⏮ button, if there are over 2 files in the disc.



### Forward/Reverse Search

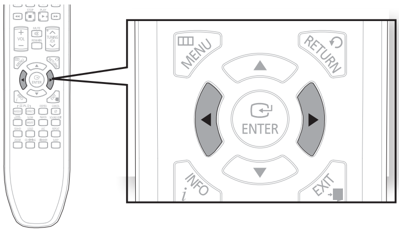
During playback, press the ◀◀,▶▶ button.
To play back the disc at a faster speed, press the ◀◀ or ▶▶ button during playback.

- Each time you press either button, the playback speed will change as follows:
  **2x → 4x → 8x → 32x → Normal**.

### 5 Minute Skip function

During playback, press the Cursor ◀,▶ button.

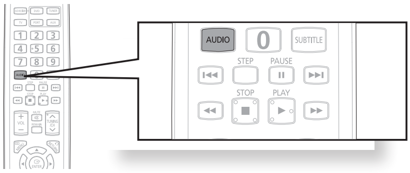
- Playback skips 5 minutes forward whenever you press the Cursor ▶ button.
- Playback skips 5 minutes back whenever you press the Cursor ◀ button.



### Audio Display

Press the **AUDIO** button.

- If there are multiple audio languages on a disc, you can toggle between them.
- Each time you press the button, your selection will toggle between **AUDIO (1/N, 2/N ...)** and ✋.

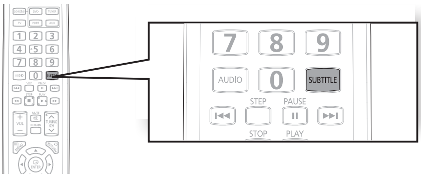


- ✋ is displayed when there is only one supported language in the disc.

### Subtitle Display

Press the **SUBTITLE** button.

- Each time you press the button, your selection will toggle between **SUBTITLE (1/N, 2/N ...)** and **SUBTITLE OFF**.
- If the disc has only one subtitle file, it will be played automatically.
- See number 2 (Caption Function) on the next page for more details concerning Subtitle usage with DivX discs.

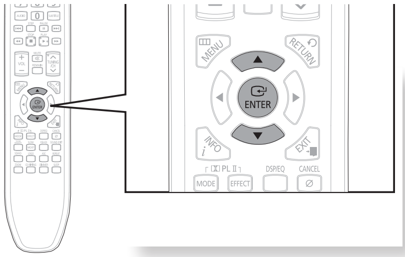


# DIVX PLAYBACK

## If the Disc has more than One Subtitle File

If the disc has more than one subtitle file, the default subtitle may not match the movie and you will have to select your subtitle language as follows:

1. In Stop mode, press the Cursor ▲,▼ button, select the desired subtitle (▭) from the TV screen, and then press the **ENTER** button.
2. When you select the desired DivX file from the TV screen, the movie will be played normally.



## DivX(Digital internet video eXpress)

DivX is a video file format developed by Microsoft and is based on MPEG4 compression technology to provide audio and video data over the Internet in real-time.

MPEG4 is used for video encoding and MP3 for audio encoding so that the users can watch a movie at near DVD-quality video and audio.

1. **Supported Formats**

   This product only supports the following media formats.If both video and audio formats are not supported, you may experience problems such as broken images or no sound.

   **Supported Video Formats**

| Format | AVI | WMV |
|---|---|---|
| Supported Versions | DivX3.11~DivX5.1, XviD | V1/V2/V3/V7 |

   **Supported Audio Formats**

| Format | MP3 | WMA | AC3 | DTS |
|---|---|---|---|---|
| Bit Rate | 80~384kbps | 56~128kbps | 128~384kbps | 1.5Mbps |
| Sampling Frequency | 44.1khz | | 44.1/48khz | 44.1khz |

   - DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
   - Aspect Ratio : Although the default DivX resolution is 640x480 pixels, this product supports up to 800x600 pixels . TV screen resolutions higher than 800 will not be supported.
   - When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.

2. **Caption Function**
   - You must have some experience with video extraction and editing in order to use this feature properly.
   - To use the caption function, save the caption file (*.smi) in the same file name as that of the DivX media file (*.avi) within the same folder.
     Example. Root Samsung_007CD1.avi
     Samsung_007CD1.smi
   - Up to 60 alphanumeric characters for the file name.

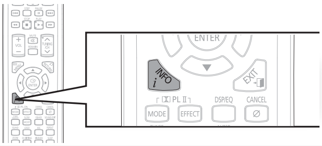
## USING THE PLAYBACK FUNCTION

### Displaying Disc Information

DVD CD MP3 JPEG DivX

You can view disc playback information on the TV screen.

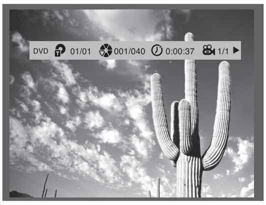
Press the **INFO** button.


ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT

- Depending on the disc, the disc information display may appear different.
- Depending on the disc, you can also select DTS, DOLBY DIGITAL, or PRO LOGIC.

**✋ appears on the TV screen!**

If this symbol appears on the TV screen when pressing a button, that operation is not possible with the disc currently being played.

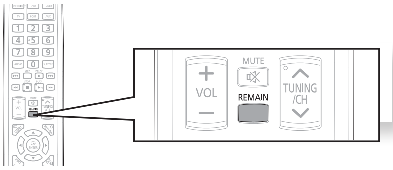

DVD 01/01 001/040 0:00:37 1/1

### Checking the Remaining Time

DVD CD MP3

Press the **REMAIN** button.

- For checking the total and remaining time of a title or chapter being played.


MUTE
VOL
REMAIN
TUNING
/CH

### Each time the Remain button is pressed

DVD-VIDEO TITLE ELAPSED → TITLE REMAIN → CHAPTER ELAPSED → CHAPTER REMAIN

CD TRACK ELAPSED → TRACK REMAIN → TOTAL ELAPSED → TOTAL REMAIN

MP3 TRACK REMAIN → TRACK ELAPSED

## Forward/Reverse Search

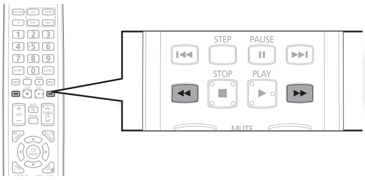
DVD CD MP3 DivX

Press the ◀◀,▶▶ button.

- Each time the button is pressed during playback, the playback speed changes as follows:

◀◀ ◀◀ 2X → ◀◀ 4X → ◀◀ 8X → ◀◀ 32X → ▶ PLAY

▶▶ ▶▶ 2X → ▶▶ 4X → ▶▶ 8X → ▶▶ 32X → ▶ PLAY


STEP
PAUSE
STOP
PLAY
MUTE

▪ During fast playback of a CD or MP3-CD, sound is heard only at 2x speed, and not at 4x, 8x, and 32x speeds.

## Slow Playback

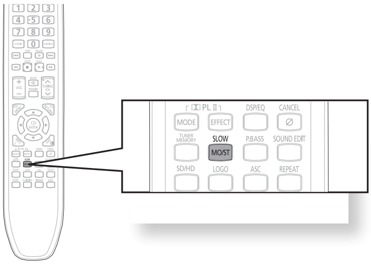
DVD DivX

Press the **SLOW** button.

- Each time the button is pressed during playback, the playback speed changes as follows:

DVD I▶1/2 → I▶1/4 → I▶1/8 → ◀I1/2 → ◀I1/4 → ◀I1/8 → ▶ PLAY

DivX I▶1/2 → I▶1/4 → I▶1/8 → ▶ PLAY


PL II
DSP/EQ
CANCEL
MODE
EFFECT
TUNER MEMORY
SLOW
MO/ST
P.BASS
SOUND EDIT
SD/HD
LOGO
ASC
REPEAT

▪ No sound is heard during slow playback.

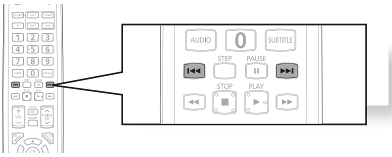
▪ Reverse slow playback does not work with DivX.

## Skipping Scenes/Songs

DVD MP3

Press the I◀◀,▶▶I button.

- Each time the button is pressed during playback, the previous or next chapter, track or directory (file) will be played.
- You cannot skip chapters consecutively.


AUDIO
0
SUBTITLE
STEP
PAUSE
STOP
PLAY

## USING THE PLAYBACK FUNCTION

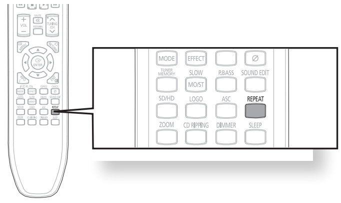
### Repeat Playback

DVD CD MP3 JPEG DivX

Repeat playback allows you to repeatedly play a chapter, title, track (song), or directory (MP3 file).

Press the **REPEAT** button.

- Each time the button is pressed during playback, the repeat playback mode changes as follows:


MODE
EFFECT
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

DVD-VIDEO REPEAT : CHAPTER → REPEAT : TITLE → REPEAT : OFF

CD REPEAT : TRACK → REPEAT : DISC → REPEAT : OFF

MP3 JPEG DivX REPEAT : RANDOM → REPEAT : TRACK → REPEAT : DIR → REPEAT : DISC → REPEAT : OFF

### Repeat Playback Options

**CHAPTER** : Repeatedly plays the selected chapter.
**TITLE** : Repeatedly plays the selected title.
**RANDOM** : Plays tracks in random order. (A track that has already been played may be played again.)
**TRACK** : Repeatedly plays the selected track.
**DIR** : Repeatedly plays all tracks in the selected folder.
**DISC** : Repeatedly plays the entire disc.
**OFF** : Cancels Repeat Playback.

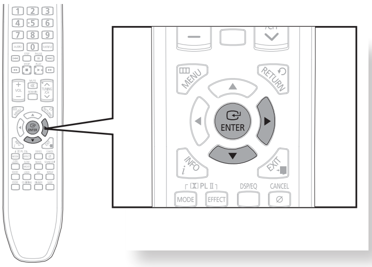
### To Select a Repeat Playback Mode in the Disc Information Screen

DVD CD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (↻) display.
3. Press the Cursor ▼ button to select the desired Repeat Playback mode.
   - To select another album and track, repeat Steps 2 and 3 above.
4. Press the **ENTER** button.

DVD OFF → A- → CHAP → TITLE → OFF

CD OFF → A- → TRACK → DISC → OFF


MENU
RETURN
ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT

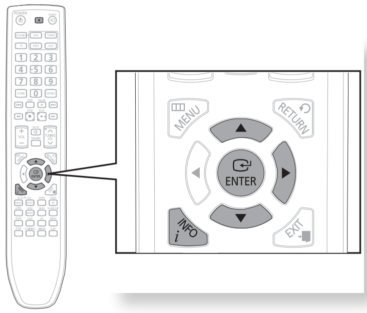
- For DivX, MP3 and JPEG discs, you cannot select Repeat Play from the information display screen.

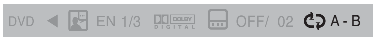
## A-B Repeat Playback

DVD CD

You can repeatedly play back a designated section of a DVD or CD.

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to REPEAT PLAYBACK (🔁) display.
3. Press the Cursor ▲,▼ button to select **A-** and then press the **ENTER** button.
   - When the **ENTER** button is pressed, the selected position will be stored in memory.
4. Press the **ENTER** button at the end of the desired segment.
   - The specified segment will be played repeatedly.




DVD ◀ EN 1/3 DOLBY DIGITAL OFF/ 02 🔁 A - B

➣ To return to normal playback, press the Cursor ▲,▼ button to select 🔁 OFF.

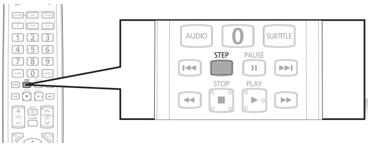
- The A-B Repeat function does not operate with DivX, MP3 or JPEG discs.

## Step Function

DVD DivX

Press the **STEP** button.

- The picture moves forward one frame each time the button is pressed during playback.



▶II STEP

- No sound is heard during step motion playback.

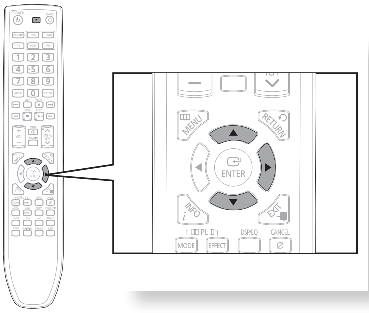
## USING THE PLAYBACK FUNCTION

### Angle Function

DVD

This function allows you to view the same scene in different angles.

1. Press the **INFO** button.
2. Press the Cursor ▶ button to move to ANGLE ( 🎥 ) display.
3. Press the Cursor ▲,▼ button or numeric buttons to select the desired angle.
   - Each time the button is pressed, the angle changes as follows:


MENU
RETURN
ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT

🎥 1/3 → 🎥 2/3 → 🎥 3/3 → 🎥 1/3

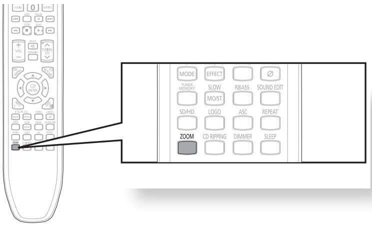
- ■ The Angle function works only with discs on which multiple angles have been recorded.

### Zoom (Screen Enlarge) Function

DVD

This function allows you to enlarge a particular area of the displayed image.

1. Press the **ZOOM** button.
2. Press the Cursor ▲,▼,◀,▶ button to move to the area you want to enlarge.
3. Press the **ENTER** button.
   - Each time the button is pressed, the zoom level changes as follows:


MODE
EFFECT
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

ZOOM X 1.5 →ZOOM X 2 →ZOOM X 3 →ZOOM OFF

SELECT ZOOM POSITION

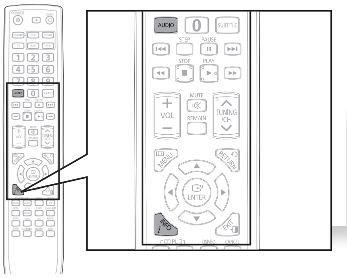
# USING THE PLAYBACK FUNCTION

## Audio Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired audio language.
   - Depending on the number of languages on a DVD disc, a different audio language (ENGLISH, SPANISH, FRENCH, etc.) is selected each time the button is pressed.

   **EN 1/3 → SP 2/3 → FR 3/3 → EN 1/3**

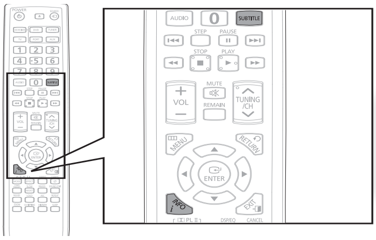

AUDIO
0
SUBTITLE
STEP
PAUSE
STOP
PLAY
MUTE
VOL
TUNING /CH
REMAIN
MENU
RETURN
ENTER
INFO
EXIT
DSP/EQ
CANCEL

## Subtitle Language Selection Function

DVD

1. Press the **INFO** button twice.
2. Press the Cursor ▶ button to move to **SUBTITLE** ( ) display.
3. Press the Cursor ▼ button or numeric buttons to select the desired subtitle.

   **EN 01/03 → SP 02/03 → FR 03/03 → OFF/03 → EN 01/03**


AUDIO
0
SUBTITLE
STEP
PAUSE
STOP
PLAY
MUTE
VOL
TUNING /CH
REMAIN
MENU
RETURN
ENTER
INFO
EXIT
DSP/EQ
CANCEL

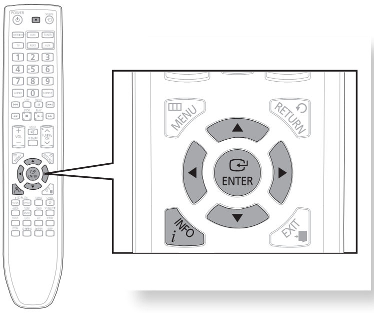
- To operate this function, you can also press the **AUDIO** or **SUBTITLE** buttons on the remote control.
- Depending on the disc, the Subtitle and Audio Language functions may not be available.

## Moving Directly to a Scene/Song

DVD CD MP3 JPEG

DVD CD

1. Press the **INFO** button.
2. Press the Cursor ▲,▼ button or numeric buttons to select the desired title/track ( ) and then press the **ENTER** button.
3. Press the Cursor ◀,▶ button to move to the Chapter ( ) display.
4. Press the Cursor ▲,▼ button or numeric buttons to select the desired chapter and then press the **ENTER** button.
5. Press the Cursor ◀,▶ button to move to the time ( ) display.
6. Press the numeric buttons to select the desired time and then press the **ENTER** button.


MENU
RETURN
ENTER
INFO
EXIT

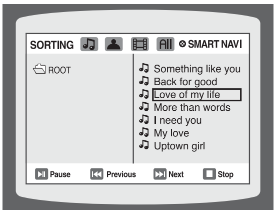
## Moving Directly to a Scene/Song

DVD CD MP3 JPEG

MP3 JPEG

Press the **numeric** buttons.

- The selected file will be played.
- When playing an MP3 or JPEG disc, you cannot use the Cursor ▲,▼ button to move to a folder.
  To move a folder, press the **STOP** (■) and then press the Cursor ▲,▼ button.


SORTING
All
SMART NAVI
ROOT
Something like you
Back for good
Love of my life
More than words
I need you
My love
Uptown girl
Pause
Previous
Next
Stop

- You can press the ⏮,⏭ button on the remote control to move directly to the desired title, chapter, or track.
- Depending on the disc, you may not be able to move to the selected title or time.

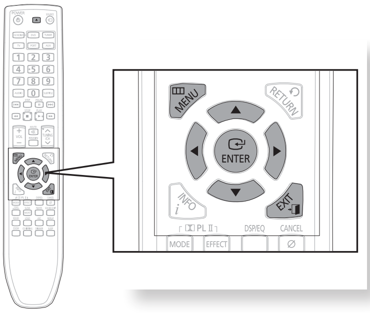
## Using the Disc Menu

DVD

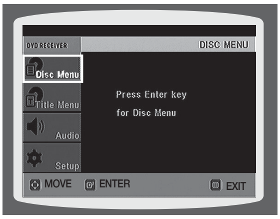
You can use the menus for the audio language, subtitle language, profile, etc.

DVD menu contents differ from disc to disc.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Disc Menu** and then press the **ENTER** button.
   - When you select Disc Menu and it is not supported by the disc, the "**This menu is not supported**" message appears on the screen.
3. Press the Cursor ▲,▼,◀,▶ button to select the desired item.
4. Press the **ENTER** button.


MENU
RETURN
ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT

➢ **Press the EXIT button to exit the setup screen.**


DVD RECEIVER
DISC MENU
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
EXIT

Press Enter key for Disc Menu

- The disc menu display may be different from disc to disc.

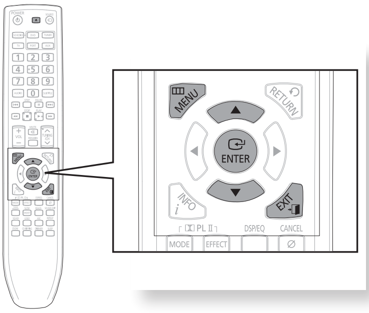
# USING THE PLAYBACK FUNCTION

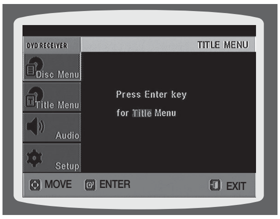
## Using the Title Menu

For DVDs containing multiple titles, you can view the title of each movie. Depending on the disc, the availability of this feature may vary.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▲,▼ button to move to **Title Menu**.
3. Press the **ENTER** button.
   - The title menu appears.

➣ **Press the EXIT button to exit the setup screen.**


MENU
RETURN
ENTER
INFO
EXIT
PL II
DSP/EQ
CANCEL
MODE
EFFECT


DVD RECEIVER
TITLE MENU
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
EXIT

Press Enter key
for Title Menu

■ The disc menu display may be different from disc to disc.

## USING AN iPod

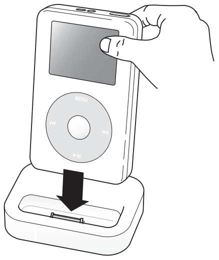
You can enjoy playback of your iPod using the supplied remote control.

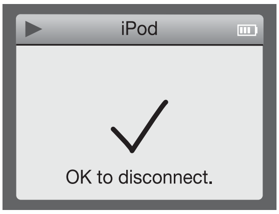
### Listening to Music (A iPod function)

You can play music files stored in the iPod player by connecting it to the home cinema system.

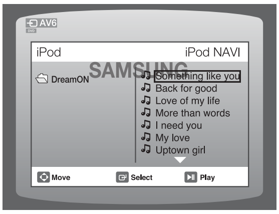
1. Connect the iPod dock connector to the iPod jack on the DVD home cinema.
2. Place the iPod in the Dock.
   - Your iPod is automatically turned on.
3. Press the **PORT** button on the remote control to select **A iPod** mode.
   - If the iPod player is connected to the home cinema system, each time you press the the **PORT** button, it will be toggled in the order of **USB** → **A iPod** → **V iPod**.
4. Press the ▲,▼ buttons on the remote control to select **Music** and press the **ENTER** button.
   - The **Music** categories appear.
5. Press the ▲,▼ buttons desired category and press the **ENTER** button.
   - The music files appear.
6. Press the ▲,▼ buttons to select the file to play and press the **ENTER** button.
   - The music will start with a new screen which shows the song title, time, artist, and progress bar.
7. You can use the remote control or main unit to control simple playback functions such as **PLAY**, **PAUSE**, **STOP**, ⏮/⏭, ⏪/⏩ and **REPEAT**.
   - Press the **RETURN** button to return to the previous menu.

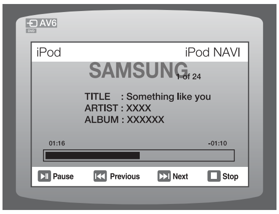
- See page 32 for compatible iPods.
  Compatibility depends on the software version of your iPod.





OK to disconnect.


AV6
DVD
iPod
iPod NAVI
SAMSUNG
DreamON
Something like you
Back for good
Love of my life
More than words
I need you
My love
Uptown girl
Move
Select
Play


AV6
DVD
iPod
iPod NAVI
SAMSUNG
1 of 24
01:16
-01:10
Pause
Previous
Next
Stop

TITLE : Something like you
ARTIST : XXXX
ALBUM : XXXXXX

### Music categories

File information including the artist name, album name, music title and genre will be displayed according to the ID3 Tag information on the appropriate music file.

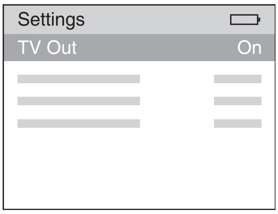
**Now Playing** : Plays a recently played file or moves to the playback screen of the current file.
**Artists** : To play by artist.
**Songs** : To play in numeric or alphabetical order
**Playlists** : To play by Playlist.
**Albums** : To play by album.
**Genres** : To play by genre.
**Composer** : To play by composer.

- The category list may differ, depending on the iPod model.
- **What is an ID3 Tag?**
  This is what is attached to an MP3 to carry information relevant to the file such as the title, artist, album, year, genre and a comment field.

## Watching a Movie (V iPod function)

You can play video or picture files stored in the iPod player by connecting it to the home cinema system.

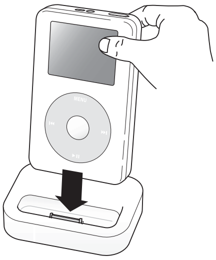
1. Connect the iPod dock connector to the iPod jack on the DVD home cinema.
2. In the iPod screen, move to **Videos > Settings** and set the **TV Out** option to **On** for iPod class/nano or select **YES** when "**Display on TV**" pops up in the screen for iPod touch/iPhone.
3. Place the iPod in the Dock.
4. Press the **PORT** button on the remote control to select **V iPod** mode.
   - If the iPod player is connected to the home cinema system, each time you press the the PORT button, it will be toggled in the order of **USB → A iPod → V iPod**.
5. Set the AV IN option of the TV connected to the home cinema system to COMPOSITE.



Settings

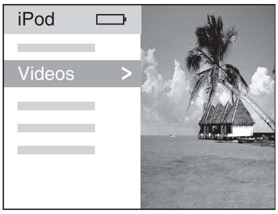
TV Out On

<iPod Screen>



Follow the iPod onscreen guide through the following steps.

6. Press the ▲,▼ buttons on the remote control to select **Videos** and press the **ENTER** button.
7. Press the ▲,▼ buttons on the remote control to select **Movies** and press the **ENTER** button.
8. Press the ▲,▼ buttons to select the file to play and press the **ENTER** button.
   - Video files of the iPod player will be played on the TV screen.
9. You can use the remote control or main unit to control simple playback functions such as **PLAY**, **PAUSE**, **STOP**, ⏮/⏭ and ⏪/⏩.
   - If you press the **PREV** button within 3 seconds after the playback, the player will stop playing and return to the list screen.
     If you press the **PREV** button 3 seconds or later after the playback, the player will move to the start screen of the current file.
   - Press the **NEXT** button to stop playing and return to the list screen.
   - Press the **RETURN** button to return to the previous menu.



<iPod Screen>

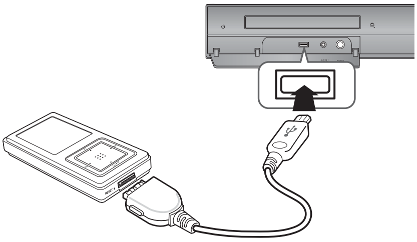
- See page 32 for compatible iPods.
  Compatibility depends on the software version of your iPod.
- When the current file is played to the end, the next file will not be played automatically.
  To play the next file, select a file to play in the list screen of the iPod player.
- You must have the VIDEO output connected to your TV to view iPod video.
- Only the iPod's playback screen will appear on your TV. The iPod menu screens will not appear.

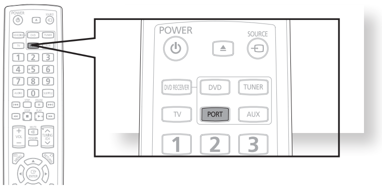
- If the TV connected to the home cinema system supports HDMI CEC, press the **AUX** button on the remote control to switch the mode to DIGITAL IN if you want to watch TV while an iPod movie is played.
- Some keys or functions of the remote control may not be supported depending on the iPod device and sofeware version of the iPod.
- Some abnormal or duplicated screen may be displayed when you watch iPod Video Clip if you set music options as 'Now Playing' in the photo settings of the iPod photo section.
- Some abnormal sound might be heard depending on the iPod model or S/W version of the iPod.

# PLAYING MEDIA FILES USING THE USB HOST FEATURE

You can enjoy media files such as pictures, movies and music saved on an MP3 player, USB memory stick or digital camera in high quality video with 5.1 channel Home Cinema sound by connecting the storage device to the USB port of the Home Cinema.

1. Connect the USB device to the USB port on the front of the unit.
2. Press the **FUNCTION** button on the DVD Player or the **PORT** button on the remote control to select the USB mode.
   - **USB** appears on the display screen and then disappears.
   - The USB MENU screen appears on the TV screen and the saved file is played.
3. To stop playback, press the **STOP** ( ■ ) button.

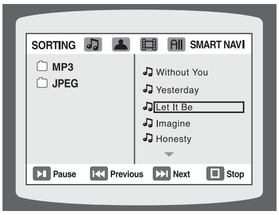



POWER
SOURCE
DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
1
2
3

## Safe USB Removal

To prevent damage to the memory stored in the USB device, perform safe removal before disconnecting the USB cable.

- Press the **STOP** (■) button twice in a row.
  The display will show **REMOVE USB**.
- Remove the USB cable.

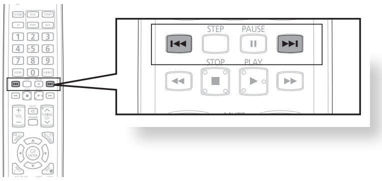

SORTING
All
SMART NAVI
MP3
JPEG
Without You
Yesterday
Let It Be
Imagine
Honesty
Pause
Previous
Next
Stop

- To listen to your music files with 5.1 channel home Cinema sound, you must set the Dolby Pro Logic II mode to Matrix. (See page 63)
- In USB mode, you are not able to change the resolution or use the SETUP menu if there is no USB device connected to the USB port.

## Skip Forward/Back

During playback, press the ⏮,⏭ button.

- When there is more than one file and you press the ⏭ button, the next file is selected.
- When there is more than one file and you press the ⏮ button, the previous file is selected.

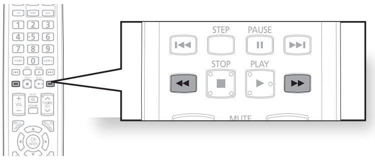

STEP
PAUSE
STOP
PLAY

## Fast playback

During playback, press the ◀◀,▶▶ button.

- Each time you press either button, the playback speed will change as follows:

  2x → 4x → 8x → 32x → Normal.


STEP
PAUSE
STOP
PLAY
MUTE

## USB Host Specifications

| | |
|---|---|
| **USB Host Specification** | • Supports USB 1.1 or USB 2.0 compliant devices.<br>• Supports devices connected using the USB A type cable.<br>• Supports UMS (USB Mass Storage Device) V1.0 compliant devices.<br>• Supports the device of which the connected drive is formatted in the FAT(FAT, FAT16, FAT32) file system. |
| **Non-compliance** | • Does not support a device that requires installing a separate driver on the PC (Windows).<br>• Does not support connection to a USB hub.<br>• A USB device that is connected using the USB extension cable may not be recognized.<br>• A USB device requiring a separate power source needs to be connected to the player with the separate power connection. |
| **Operational Limitations** | • If the connected device has multiple drives (or partitions) installed, only one drive (or partition) can be connected.<br>• A device supporting USB 1.1 alone may cause a difference in the picture quality, depending on the device. |

## USB Devices that can be used with the Home Cinema

1. USB Storage Device
2. MP3 Player
3. Digital Camera
4. Removable HDD
   - Removable HDDs equipped with less than 160 Gbytes are supported. Removable HDDs equipped with 160Gbytes or more may not be recognized, depending on the device.
   - If the connected device does not work due to insufficient power supply, you can use a separate power cable to supply power so that it can work properly. The connector of the USB cable may differ, depending on the manufacturer of the USB device.
5. USB card Reader: One slot USB card reader and Multi slot USB card reader.
   - Depending on the manufacturer. the USB card reader may not be supported.
   - If you install multiple memory devices into a multi card reader, you may experience problems.

## Compliant File Formats

| Format | File name | File extension | Bit rate | Version | Pixel | Sampling Frequency |
|---|---|---|---|---|---|---|
| **Still Picture** | JPG | JPG .JPEG | – | – | 640x480 | – |
| **Music** | MP3 | .MP3 | 80~384kbps | – | – | 44.1kHz |
| | WMA | .WMA | 56~128kbps | V8 | – | 44.1kHz |
| **Movie** | WMV | .WMV | 4Mbps | V1,V2,V3,V7 | 720x480 | 44.1KHz~48KHz |
| | DivX | .AVI,.ASF | 4Mbps | DivX3.11~ DivX5.1, XviD | 720x480 | 44.1KHz~48KHz |

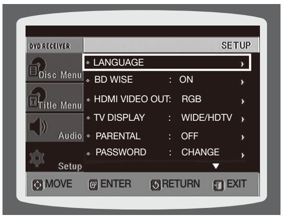
- CBI (Control/Bulk/Interrupt) is not supported.
- Digital Cameras that use PTP protocol or require additional program installation when connected to a PC are not supported.
- A device using NTFS file system is not supported. (Only FAT 16/32 (File Allocation Table 16/32) file system is supported.)
- Does not operate with Janus enabled MTP (Media Transfer Protocol) devices.

# system setup

For your convenience, you can set this DVD Home Cinema's features for the best use in your home environment.

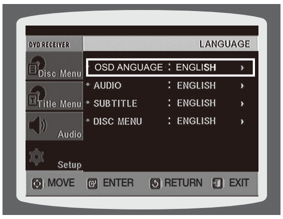
## SETTING THE LANGUAGE

OSD(On-Screen Display) language is set to English by default.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

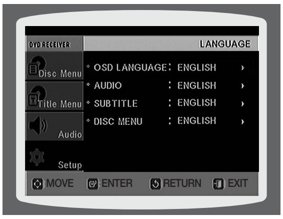
1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Select **Language** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **OSD Language** and then press the **ENTER** button.


DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

OSD ANGUAGE : ENGLISH
AUDIO : ENGLISH
SUBTITLE : ENGLISH
DISC MENU : ENGLISH

5. Press the Cursor ▲,▼ button to select the desired language and then press the **ENTER** button.
   - Once the setup is complete, the OSD will be English if English has been selected as language.

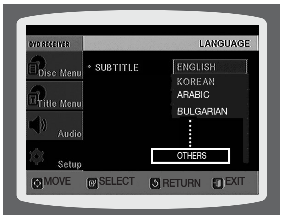
➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

OSD LANGUAGE : ENGLISH
AUDIO : ENGLISH
SUBTITLE : ENGLISH
DISC MENU : ENGLISH

- **OSD LANGUAGE** : Selecting the OSD Language
- **AUDIO** : Selecting the Audio Language (recorded on the disc)
- **SUBTITLE** : Selecting the Subtitle Language (recorded on the disc)
- **DISC MENU** : Selecting the Disc Menu Language (recorded on the disc)

※ If the language you selected is not recorded on the disc, the menu language will not change even if you set it to your desired language.

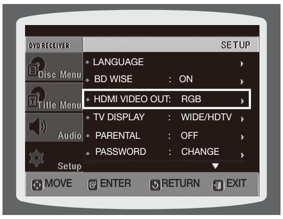

DVD RECEIVER
LANGUAGE
Disc Menu
Title Menu
Audio
Setup
SUBTITLE
ENGLISH
KOREAN
ARABIC
BULGARIAN
OTHERS
MOVE
SELECT
RETURN
EXIT

- **OTHERS** : To select another language, select OTHERS and enter the language code of your country (see page 71). AUDIO, SUBTITLE and DISC MENU languages can be selected.

## SETTING THE HDMI VIDEO OUT MODE

Selects the type of output from the HDMI/OUT jack.

- **YCbCr** : Normally, select this when connecting to an HDMI device.
- **RGB** : Gives brighter colors and deeper blacks. Select this if colors are weak.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI VIDEO OUT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

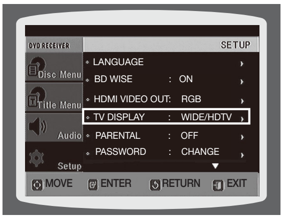
➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.

# SETTING THE TV SCREEN TYPE

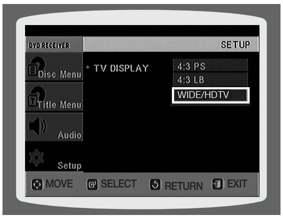
Depending on your TV type (Widescreen or conventional 4:3), you can select the TV's aspect ratio.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TV DISPLAY** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired item and then press the **ENTER** button.
   - Once the setup is complete, you will be taken to the previous screen.

➣ Press the **RETURN** button to return to the previous level.
➣ Press the **EXIT** button to exit the setup screen.



LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE



TV DISPLAY
4:3 PS
4:3 LB
WIDE/HDTV

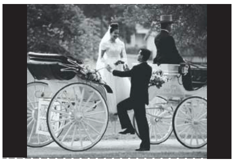
## Adjusting the TV Aspect Ratio (Screen Size)

The horizontal to vertical screen size ratio of conventional TV's is 4:3, while that of widescreen and high definition TV's is 16:9. This ratio is called the aspect ratio. When playing DVDs recorded in different screen sizes, you should adjust the aspect ratio to fit your TV or monitor.

For a standard TV, select either **4:3PS** or **4:3LB** option according to personal preference.
Select **WIDE/HDTV** if you have a widescreen TV.

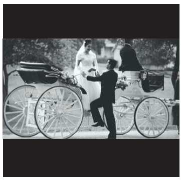
**4:3PS (4:3 Pan&Scan)**
Select this to play a 16:9 picture in the pan & scan mode on a conventional TV.

- You can see the central portion of the screen only (with the sides of the 16:9 picture cut off).



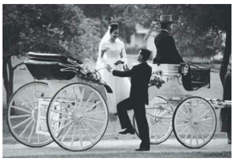
**4:3LB (4:3 Letterbox)**
Select this to play a 16:9 picture in the letter box mode on a conventional TV.

- Black bars will appear at the top and bottom of the screen.



**WIDE/HDTV**
Select this to view a 16:9 picture in the full-screen mode on your widescreen TV.

- You can enjoy the widescreen aspect.

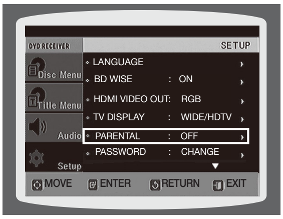


- If a DVD is in the 4:3 ratio, you cannot view it in widescreen.
- Since DVD discs are recorded in various image formats, they will look different depending on the software, the type of TV, and the TV aspect ratio setting.
- When using HDMI, the screen is automatically converted to Wide mode.

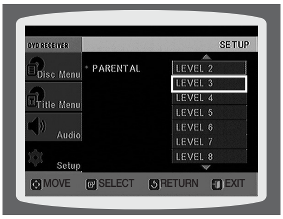
## SETTING PARENTAL CONTROLS (RATING LEVEL)

Use this to restrict playback of adult or violent DVDs you do not want children to view.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PARENTAL** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired rating level and then press the **ENTER** button.
   - If you have selected Level 6, you cannot view DVDs with Level 7 or higher.
   - The higher the level, the closer the content is to violent or adult material.
5. Enter the password and then press the **ENTER** button.
   - The password is set to "7890" by default.
   - Once the setup is complete, you will be taken to the previous screen.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
SELECT
RETURN
EXIT

PARENTAL
LEVEL 2
LEVEL 3
LEVEL 4
LEVEL 5
LEVEL 6
LEVEL 7
LEVEL 8

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

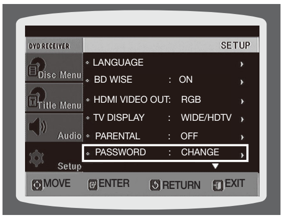
- This function works only if a DVD disc contains the rating level information.

## SETTING THE PASSWORD

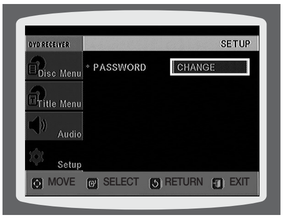
You can set the password for the Parental (rating level) setting.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **PASSWORD** and then press the **ENTER** button.
4. Press the **ENTER** button.
5. Enter the password and then press the **ENTER** button.
   - Enter the old password, a new password, and confirm new password.
   - The setting is complete.

- The password is set to "7890" by default.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

LANGUAGE
BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
SELECT
RETURN
EXIT

PASSWORD
CHANGE

### If you have forgotten the rating level password, do the following

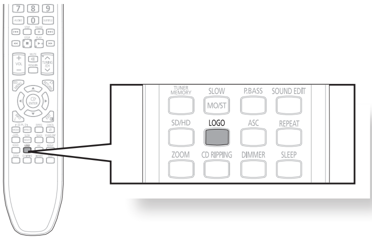
- While the player is in No Disc mode, hold the remote control's **STOP** (■) button for longer than 5 seconds. **INITIAL** appears on the display and all settings will return to the default values.
- Press the **POWER** button.

Using the RESET function will erase all stored settings.
Do not use this unless necessary.

## SETTING THE WALLPAPER

DVD JPEG

While watching a DVD or JPEG CD, you can set the image you like as background wallpaper.

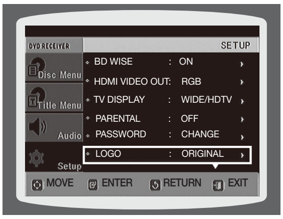

TUNER MEMORY
SLOW
MO/ST
P.BASS
SOUND EDIT
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

1. During playback, press the **PAUSE** button when an image you like appears.
2. Press the **LOGO** button.
   - **COPY LOGO DATA** will be displayed on the TV screen.
3. The power will turn off and then back on.
   - The selected wallpaper will be displayed.
   - You can select up to 3 wallpaper settings.

COPY LOGO DATA

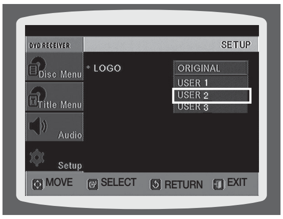
## TO SELECT ONE OF THE 3 WALLPAPER SETTINGS YOU'VE MADE

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Setup** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **LOGO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the desired **USER**, and then press the **ENTER** button.
   - This selects one of the 3 wallpaper screens.
5. Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
MOVE
ENTER
RETURN
EXIT

BD WISE : ON
HDMI VIDEO OUT: RGB
TV DISPLAY : WIDE/HDTV
PARENTAL : OFF
PASSWORD : CHANGE
LOGO : ORIGINAL

- **ORIGINAL** : Select this to set the Samsung Logo image as your wallpaper.
- **USER** : Select this to set the desired image as your wallpaper.


DVD RECEIVER
SETUP
Disc Menu
Title Menu
Audio
Setup
ORIGINAL
USER 1
USER 2
USER 3
MOVE
SELECT
RETURN
EXIT

LOGO

➢ Press the **RETURN** button to return to the previous level.

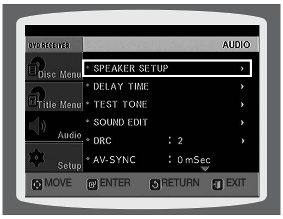
➢ Press the **EXIT** button to exit the setup screen.

## DivX (R) Registration

Please use the Registration code to register this player with the DivX (R) video on demand format.

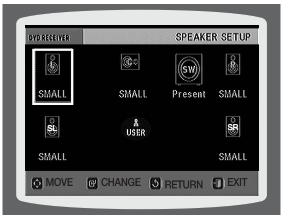
To learn more, go to www.divx.com/vod.

## SETTING THE SPEAKER MODE


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
SPEAKER SETUP
SMALL
SMALL
SW
Present
SMALL
SL
USER
SR
SMALL
SMALL
MOVE
CHANGE
RETURN
EXIT

Signal outputs and frequency responses from the speakers will automatically be adjusted according to your speaker configuration and whether certain speakers are used or not.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. In the **SPEAKER SETUP**, press the **ENTER** button again.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
   - For C, SL, and SR, each time the button is pressed, the mode switches alternately as follows : SMALL ➞ NONE.
   - For L and R, the mode is set to SMALL.

- **SMALL** : Select this when using the speakers.
- **NONE** : Select this when no speaker is connected.

➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.

- Depending on PRO LOGIC and STEREO settings, the speaker mode may vary (see page 63).

# SETTING THE DELAY TIME

If the speakers cannot be placed at equal distances from the listening position, you can adjust the delay time of the audio signals from the Centre and rear speakers.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DELAY TIME** and then press the **ENTER** button.
4. Press the Cursor ▲,▼,◀,▶ button to move to the desired speaker and then press the **ENTER** button.
5. Press the Cursor ◀,▶ to set the Delay time.
   - You can set the delay time for C between 00 and 05mSEC and for SL and SR between 00 and 15mSEC.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

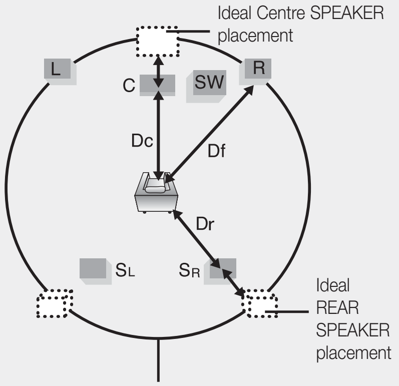
## Setting up the Speaker Delay Time

When 5.1CH Surround Sound is played, you can enjoy the best sound if the distance between you and each speaker is the same.
Since the sounds arrive at the listening position at different times depending on the placement of speakers, you can adjust this difference by adding a delay effect to the sound of the Centre and Rear Speakers.

### Setting Centre SPEAKER

If the distance of Dc is equal to or longer than the distance of Df in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

| Distance between Df and Dc | 0.00 m | 0.34 m | 0.68 m | 1.06 m | 1.40 m | 1.76 m |
|---|---|---|---|---|---|---|
| Delay Time | 0 ms | 1 ms | 2 ms | 3 ms | 4 ms | 5 ms |



It is desirable to place all speakers within this circle.

Df: The distance from FRONT SPEAKER
Dc: The distance from Centre SPEAKER
Dr: The distance from REAR SPEAKER

### Setting REAR SPEAKER

If the distance of Dc is equal to or longer than the distance of Dr in the figure, set the mode as 0ms.
Otherwise, change the setting according to the table.

| Distance between Df and Dc | 0.00 m | 1.06 m | 2.11 m | 3.16 m | 3.62 m | 5.29 m |
|---|---|---|---|---|---|---|
| Delay Time | 0 ms | 3 ms | 6 ms | 9 ms | 12 ms | 15 ms |

- With **PL II** (Dolby Pro Logic II), the delay time may be different for each mode.
- With AC-3 and DTS, the delay time can be set between 00 and 15mSEC.
- The Centre channel is only adjustable on 5.1 channel discs.

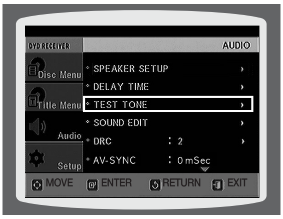
## SETTING THE TEST TONE

Use the Test Tone feature to check the speaker connections.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **TEST TONE** and then press the **ENTER** button.
   - The test tone will be sent to **L → C → R → SR → SL → SW** in order.
     If the **ENTER** button is pressed again at this time, the test tone will stop.

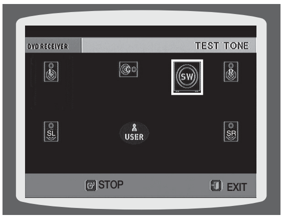
➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
TEST TONE
C
SW
SL
USER
SR
STOP
EXIT

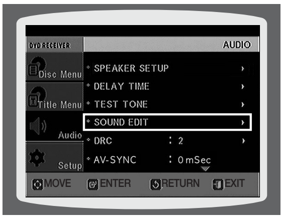
## SETTING THE AUDIO

You can adjust the balance and level for each speaker.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **SOUND EDIT** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select and adjust the desired item.
   Press the Cursor ◀,▶ button to adjust the settings.

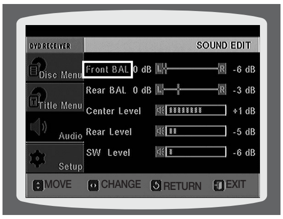
➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
SOUND EDIT
Disc Menu
Title Menu
Audio
Setup
L
R
MOVE
CHANGE
RETURN
EXIT

Front BAL 0 dB -6 dB

Rear BAL 0 dB -3 dB

Center Level +1 dB

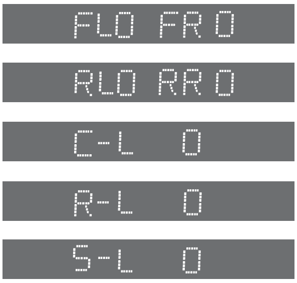
Rear Level -5 dB

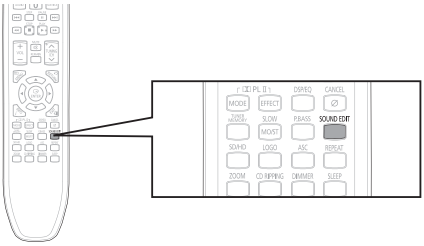
SW Level -6 dB

# SETTING THE AUDIO

## Manually Adjusting the Speaker Volume and Balance with the SOUND EDIT Button.

Press the **SOUND EDIT** button and then press the Cursor ◀,▶ button.


FLO FR 0
RLO RR 0
C-L 0
R-L 0
S-L 0


PL II
DSP/EQ
CANCEL
MODE
EFFECT
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

### Adjusting Front/Rear Speaker Balance

- You can select between 0, -6, and OFF.
- The volume decreases as you move closer to –6.

### Adjusting Center/Rear/Subwoofer Speaker Level

- The volume level can be adjusted in steps from +6dB to –6dB.
- The sound gets louder as you move closer to +6dB and quieter as you get closer to -6dB.

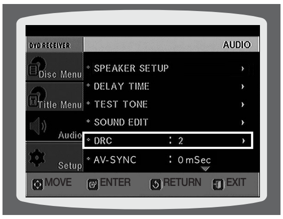
# SETTING THE DRC (DYNAMIC RANGE COMPRESSION)

This feature balances the range between the loudest and quietest sounds. You can use this function to enjoy Dolby Digital sound when watching movies at low volume at night.

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **DRC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ to adjust the **DRC**.
   - When the Cursor ▲ button is pressed, the effect is greater, and when the Cursor ▼ button is pressed, the effect is smaller.

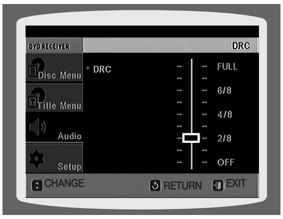
➢ Press the **RETURN** button to return to the previous level.

➢ Press the **EXIT** button to exit the setup screen.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

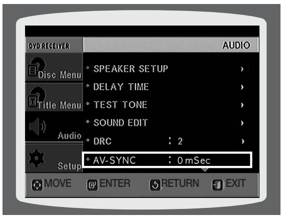
DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
DRC
Disc Menu
Title Menu
Audio
Setup
DRC
FULL
6/8
4/8
2/8
OFF
CHANGE
RETURN
EXIT

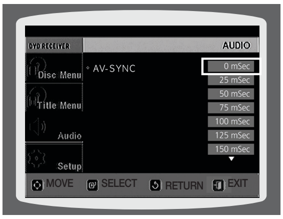
## SETTING THE AV SYNC

Video may look slower than the audio if it is connected to a digital TV. If this occurs, adjust the audio delay time to match the video.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
SPEAKER SETUP
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
AV-SYNC
0 mSec
25 mSec
50 mSec
75 mSec
100 mSec
125 mSec
150 mSec
MOVE
SELECT
RETURN
EXIT

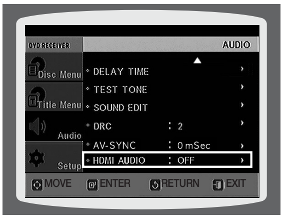
1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **AV-SYNC** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select the AV-SYNC Delay Time and then press the **ENTER** button.
   - You can set the audio delay time between 0 ms and 300 ms. Set it to the optimal status.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

## SETTING THE HDMI AUDIO

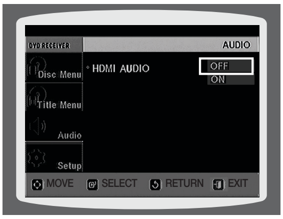
The audio signals transmitted over the HDMI Cable can be toggled ON/OFF.


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
DELAY TIME
TEST TONE
SOUND EDIT
MOVE
ENTER
RETURN
EXIT

DRC : 2

AV-SYNC : 0 mSec

HDMI AUDIO : OFF


DVD RECEIVER
AUDIO
Disc Menu
Title Menu
Audio
Setup
HDMI AUDIO
OFF
ON
MOVE
SELECT
RETURN
EXIT

1. In Stop mode, press the **MENU** button.
2. Press the Cursor ▼ button to move to **Audio** and then press the **ENTER** button.
3. Press the Cursor ▼ button to move to **HDMI AUDIO** and then press the **ENTER** button.
4. Press the Cursor ▲,▼ button to select **ON** or **OFF** and then press the **ENTER** button.

- **ON :** Both video and audio signals are transmitted over the HDMI connection cable, and audio is output through your TV speakers only.
- **OFF :** Video is transmitted over the HDMI connection cable only, and audio is output through the home cinema speakers only.

➣ Press the **RETURN** button to return to the previous level.

➣ Press the **EXIT** button to exit the setup screen.

- The default setting of this function is HDMI AUDIO OFF.
- HDMI AUDIO is automatically down-mixed to 2ch for TV speakers.
- When HDMI AUDIO is on,PRO LOGIC II /DSP EQ/P.BASS doesn't work.

# SOUND FIELD (DSP)/EQ FUNCTION

DSP(Digital Signal Processor) : DSP modes have been designed to simulate different acoustic environments.

EQ : You can select ROCK, POP, or CLASSIC to optimize the sound for the genre of music you are playing

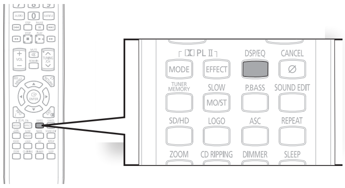
Press the DSP/EQ button.

- **DSP** appears on the display panel.

Each time the button is pressed, the selection changes as follows:

**POPS → JAZZ → ROCK → STUDIO → CLUB → HALL → MOVIE → CHURCH → PASS → POPS**

- **POP, JAZZ, ROCK** : Depending on the genre of music, you can select POP, JAZZ, and ROCK.
- **STUDIO** : Provides a sense of presence as if in a studio.
- **CLUB** : Simulates the sound of a dance club with a throbbing bass beat.
- **HALL** : Provides a clear vocal as if listening in a concert hall.
- **MOVIE** : Provides the feeling of a movie cinema.
- **CHURCH** : Gives the feel of being in a grand church.
- **PASS** : Select this for normal listening.


PL II
DSP/EQ
CANCEL
MODE
EFFECT
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

- The DSP/EQ function is only available in STEREO mode.
  Press the DD **PL II mode** button to show STEREO on the display.
- This feature works with CDs, MP3-CDs, DivX, tuner and Dolby Digital discs.
- When playing a DVD disc encoded with two or more channels, the multi-channel mode will be selected automatically and DSP/EQ does not work.

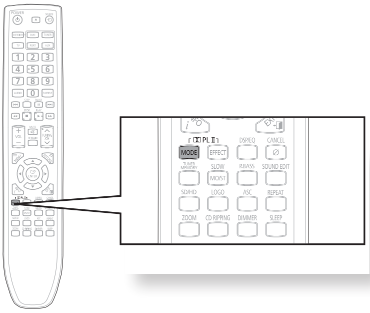
# DOLBY PRO LOGIC II MODE

You can select the desired Dolby Pro Logic II audio mode.

Press the DD **PL II MODE** button.

- Each time the button is pressed, the mode changes as follows.

**MUSIC → CINEMA → PROLOG → MATRIX →**
**STEREO → MUSIC**


PL II
DSP/EQ
CANCEL
MODE
EFFECT
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

## PRO LOGIC II

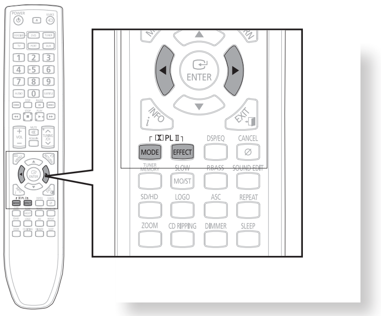
- **MUSIC** : When listening to music, you can experience sound effects as if you are listening to the actual performance.
- **CINEMA** : Adds realism to the movie soundtrack.
- **PRO LOGIC** : You will experience a realistic multi-channel effect, as if using five speakers, while using just the front left and right speakers.
- **MATRIX** : You will hear 5.1 channel surround sound.

- **STEREO** : Select this to listen to sound from the front left and right speakers and the subwoofer only.

- When selecting Pro Logic II mode, connect your external device to the AUDIO INPUT jacks (L and R) on the player. If you connect to only one of the inputs (L or R), you cannot listen to surround sound.
- PRO LOGIC II function is only available in STEREO mode.

## DOLBY PRO LOGIC II EFFECT

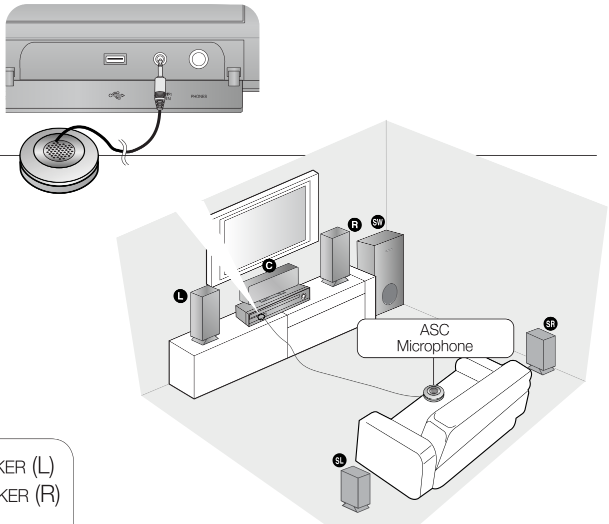
This function works only in Dolby Pro Logic MUSIC mode.


ENTER
INFO
EXIT
PL II
MODE
EFFECT
DSP/EQ
CANCEL
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

1. Press the **PL II MODE** button to select **MUSIC** mode.
2. Press the **PL II EFFECT** button.
3. Press the ◀,▶ buttons to select the desired effect setting.
   - PANORAMA : You can select either 0 or 1.
   - C- WIDTH : You can select between 0 and 7.
   - DIMENS : You can select between 0 and 6.

## ASC (Auto Sound Calibration) SETUP

By setting the ASC function just once when you relocate or install the unit, you can have the unit automatically recognize the distance between speakers, levels between channels, and frequency characteristics to create a 5.1-channel sound field optimized for your environment.


PHONES
R
SW
C
L
SR
SL
ASC
Microphone

L: Front Speaker (L)
R: Front Speaker (R)
C: Center Speaker
SW: Subwoofer
SL: Rear Speaker (L)
SR: Rear Speaker (R)

- ASC SETUP can be made when there is no disc in the unit.
- Because the volume level of the tone is fixed during the ASC setup, you cannot adjust the volume using the volume control buttons.
- If the auto sound microphone is disconnected during the ASC setup, the setup will be cancelled.
- When ASC function is activated, the DSP/EQ, DOLBY PRO LOGIC ll/P. BASS sound effects will not work.

### To Verify the ASC

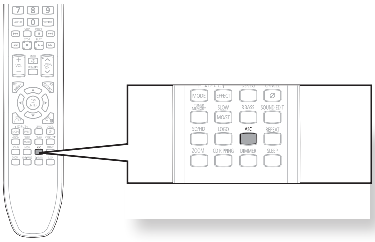
Briefly press the **ASC** button.

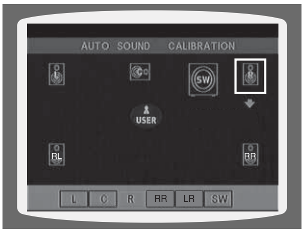
- Distance and level values specified for each channel will appear in the display.

# ASC (Auto Sound Calibration) SETUP

1. Plug the ASC microphone into the ASC input jack.
2. Place the ASC microphone at the listening position.
3. Press **ASC** button.
   - To create the optimal 5.1 channel sound field, the selections are in the following sequence:

     L → C → R → SR → SL → SW
4. When the message "REMOVE MIC" appears in the display, unplug the ASC microphone.


MODE
EFFECT
TUNER MEMORY
SLOW
MO/ST
P.BASS
SOUND EDIT
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP


AUTO SOUND CALIBRATION
USER
RL
RR
SW
L
C
R
RR
LR
SW

▪ Setting the ASC function takes about 3 minutes.

## To cancel the ASC (Auto Sound Calibration) setup, press the ASC button.

The test tone output stops, "CANCEL ASC" appears in the display .

## To listen in the ASC (Auto Sound Calibration) mode, briefly press ASC button.

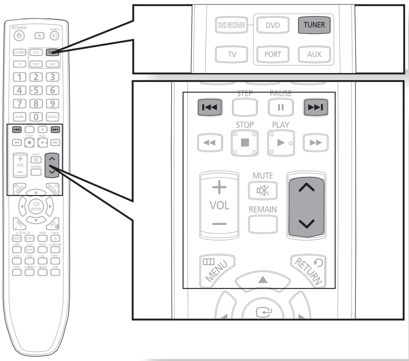
The selection alternates between ASC ON and ASC OFF in the display.

If you select "ASC ON", you will hear sound in the ASC mode.
If you select "ASC OFF", you will hear sound in the mode set in the audio setup.

# LISTENING TO RADIO

## Remote Control

1. Press the **TUNER** button to select the FM band.
2. Tune in to the desired station.
   - **Automatic Tuning 1** : When the ⏮,⏭ button is pressed, a preset broadcast station is selected.
   - **Automatic Tuning 2** : Press and hold the ∧,∨ button to automatically search for active broadcasting stations.
   - **Manual Tuning** : Briefly press the ∧,∨ button to increase or decrease the frequency incrementally.


DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
STEP
PAUSE
STOP
PLAY
MUTE
VOL
REMAIN
MENU
RETURN

## Main Unit

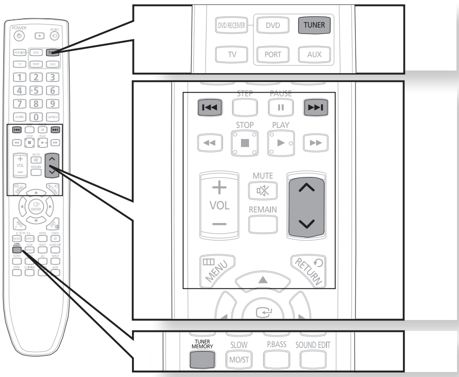
1. Press the **FUNCTION** button to select the FM band.
2. Select a broadcast station.
   - **Automatic Tuning 1** : Press the **STOP** (■) button to select **PRESET** and then press the ⏮,⏭ button to select the preset station.
   - **Automatic Tuning 2** : Press the **STOP** (■) button to select **MANUAL** and then press and hold the ⏮,⏭ button to automatically search the band.
   - **Manual Tuning** : Press the **STOP** (■) button to select **MANUAL** and then briefly press the ⏮,⏭ button to tune in to a lower or higher frequency.

Press the **MO/ST** button to listen in Mono/Stereo.
- Each time the button is pressed, the sound switches between **STEREO** and **MONO**.
- In a poor reception area, select MONO for a clear, interference-free broadcast.

# PRESETTING STATIONS

Example : Presetting FM 89.10 in the memory

1. Press the **TUNER** button to select the FM band.
2. Press the ∧,∨ button to select **89.10**.
3. Press the **TUNER MEMORY** button.
4. Press the ⏮,⏭ button to select a preset number.
   - You can select between presets 1 and 15.
5. Press the **TUNER MEMORY** button again.
6. To preset another station, repeat steps 2 to 5.
   - To tune in to a preset station, press the ⏮,⏭ button on the remote control to select a channel.


DVD RECEIVER
DVD
TUNER
TV
PORT
AUX
STEP
PAUSE
STOP
PLAY
MUTE
VOL
REMAIN
MENU
RETURN
TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST

# convenient function

## SLEEP TIMER FUNCTION

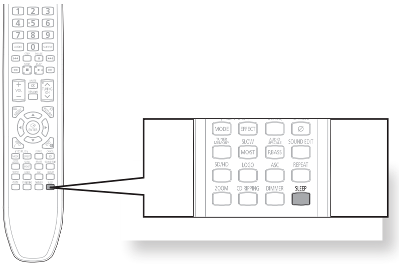
You can set the time that the Home Cinema will shut itself off.

Press the **SLEEP** button.

- **SLEEP** will be displayed. Each time the button is pressed, the preset time in minutes changes as follows :
  10 ➞ 20 ➞ 30 ➞ 60 ➞ 90 ➞ 120 ➞ 150 ➞ OFF.

To confirm the sleep timer setting, press the **SLEEP** button.

- The remaining time before the Home Cinema will shut itself off is displayed.
- Pressing the button again changes the sleep time from what you have set earlier.


MODE
EFFECT
TUNER MEMORY
SLOW
AUDIO UPSCALE
SOUND EDIT
MO/ST
P.BASS
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

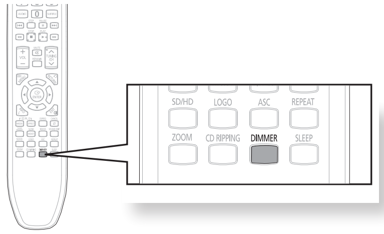
To cancel the sleep timer, press the **SLEEP** button until **OFF** appears on the display.

## ADJUSTING DISPLAY BRIGHTNESS

You can adjust the brightness of the display on the main unit so it won't interfere with your movie viewing.

Press the **DIMMER** button.

- Each time the button is pressed, the front display's brightness will be adjusted.

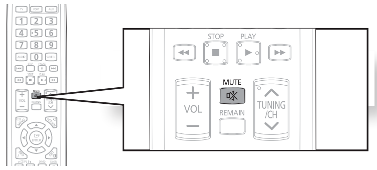

SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

## MUTE FUNCTION

This is useful when answering a doorbell or telephone call.

Press the **MUTE** button.

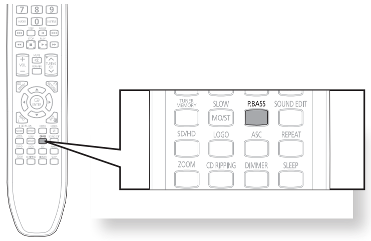
- **MUTE** appears in the display.
- To restore the sound, press the **MUTE** button again.


STOP
PLAY
MUTE
VOL
REMAIN
TUNING /CH

## P.BASS

The P.BASS function provides a bass boost to reinforce the low frequencies.

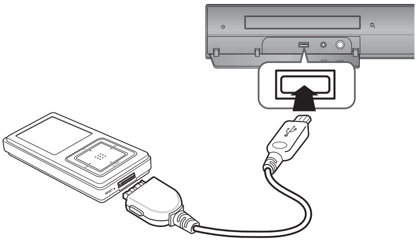
1. Press the **P.BASS** button to select P.BASS mode.
2. Press the **P.BASS** button again to turn off the P.BASS mode.


TUNER MEMORY
SLOW
P.BASS
SOUND EDIT
MO/ST
SD/HD
LOGO
ASC
REPEAT
ZOOM
CD RIPPING
DIMMER
SLEEP

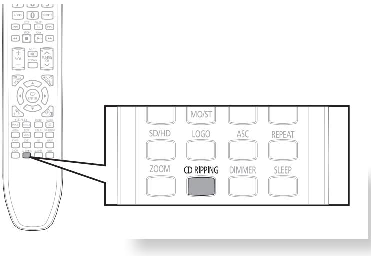
- The P.BASS function is only available with 2 channel LPCM sources such as mp3,Divx,cd and wma. Press P.BASS button and "POWER BASS ON" will be displayed on the screen.
- The P.bass does not work with DSP/EQ or DOLBY PRO LOGIC II modes.
  If you press P.BASS in the DSP/EQ mode, the DSP/EQ mode is automatically shut off and the P. BASS function comes on.

## CD RIPPING

Converts audio sound of the CD into a MP3 file format before sending to a USB storage device.



1. Connect the USB device.
2. Insert the audio CD into the CD tray.
3. Press the **CD RIPPING** button.
    - To start ripping the current track, press the **CD RIPPING** button on the remote control while the system is playing a track or stopped temporarily.
    - To rip the entire CD, press and hold the **CD RIPPING** button on the remote control.
      -"FULL CD RIPPING" appears on the display and ripping starts.
4. Press the **STOP** (■) button to stop ripping.
    - When the CD ripping is done, a directory named "RIPPING" will be created in the USB device and the ripped file will be saved in a format of "SAM-XXXX”. mp3".



- Do not disconnect the USB connection or the power cable during the CD ripping. Otherwise, it may cause damage to the data. To stop CD ripping, press the **STOP** button and disconnect the USB device after the system stops playing the CD completely.
- If you disconnect the USB connection during the CD ripping, the system will turn off and you will not be able to delete the ripped file.
- If you connect the USB device to the system while it is playing a CD, the system stops playing and will resume playing when the USB connection initialization is completed. (The initialization time may differ depending on the type of the USB device.)
- DTS-CDs cannot be ripped.
- If the ripping duration is less than 5 seconds, a ripping file may not be created.
- CD ripping works only if the USB device or the HDD is formatted in the FAT file system. (The NTFS file system is not supported.) For a list of compliant devices, refer to the specification of the USB host.
- Ripping is performed at a normal speed of x1. The ripping time may be longer with some USB devices.
- While the system is ripping a CD, the audio sound will not be output.
- Do not put touch or move the system while it is ripping a CD.

# troubleshooting

Refer to the chart below when this unit does not function properly. If the problem you are experiencing is not listed below or if the instruction below does not help, turn off the unit, disconnect the power cord, and contact the nearest authorized dealer or Samsung Customer Service Center.

| SYMPTOM | Check/Remedy |
|---|---|
| **Disc tray does not open.** | • Is the power cord plugged securely into the outlet?<br>• Turn off the power and then turn it back on. |
| **In case of fail to connect iPod.** | • Check the contact condition of the iPod connector and the Cradle of the Home cinema again.<br>• Keep the iPod S/W version up to date. |
| **Playback does not start immediately when the Play/Pause button is pressed.** | • Are you using a deformed disc or a disc with scratches on the surface?<br>• Wipe the disc clean. |
| **Sound is not produced.** | • No sound is heard during fast playback, slow playback, and step motion playback.<br>• Are the speakers connected properly? Is the speaker setup correctly customized?<br>• Is the disc severely damaged? |
| **Sound can be heard only from a few speakers and not all six.** | • When listening to a CD or radio, sound is output to the front speakers (L/R) only. Select "PRO LOGIC II" by pressing ᗡDPL II (Dolby Pro Logic II) on the remote control to use all six speakers.<br>• Make sure that the DVD disc is 5.1-CH compatible.<br>• If you set C, SL, and SR to NONE in the speaker mode in the audio setup of the setup screen, no sound is heard from the center speaker and the rear left and right speakers. Set C, SL, and SR to SMALL. |
| **Dolby Digital 5.1 CH Surround Sound is not produced.** | • Is there "Dolby Digital 5.1 CH" mark on the disc? Dolby Digital 5.1 CH Surround Sound is produced only if the disc is recorded with 5.1 channel sound.<br>• Is the audio language correctly set to DOLBY DIGITAL 5.1-CH in the information display? |
| **The remote control does not work.** | • Is the remote control being operated within its operation range of angle and distance?<br>• Are the batteries exhausted?<br>• Have you selected the mode(TV/DVD) functions of the remote control (TV or DVD) correctly? |

| SYMPTOM | Check/Remedy |
|---|---|
| **• Disc is rotating but no picture is produced.**<br>**• Picture quality is poor and picture is shaking.** | • Is the TV power on?<br>• Are the video cables connected properly?<br>• Is the disc dirty or damaged?<br>• A poorly manufactured disc may not be playable. |
| **Audio language and subtitles do not work.** | • Audio language and subtitles will not work if the disc does not contain them. |
| **Menu screen does not appear even when the menu function is selected.** | • Are you using a disc that does not contain menus? |
| **Aspect ratio cannot be changed.** | • You can play 16:9 DVDs in 16:9 WIDE mode, 4:3 LETTER BOX mode, or 4:3 PAN SCAN mode, but 4:3 DVDs can be seen in 4:3 ratio only. Refer to the DVD disc jacket and then select the appropriate function. |
| **• The main unit is not working. (Example: The power goes out or the front panel key doesn't work or a strange noise is heard.)**<br>**• The DVD player is not working normally.** | • Turn off the power and hold the **STOP** ( ■ ) button on the remote control for longer than 5 seconds (reset function).<br>**Using the RESET function will erase all stored settings. Do not use this unless necessary.** |
| **The rating level password has been forgotten.** | • While "NO DISC" message appears on the display of the main unit, hold the remote control's **STOP** ( ■ ) button for longer than 5 seconds. "INITIAL" appears on the display and all settings will return to the default values.<br>• Press the POWER button.<br>**Using the RESET function will erase all stored settings. Do not use this unless necessary.** |
| **Can't receive radio broadcast.** | • Is the antenna connected properly?<br>• If the antenna's input signal is weak, install an external FM antenna in an area with good reception. |

# language code list

Enter the appropriate code number for the initial settings “Disc Audio”, “Disc Subtitle” and/or “Disc Menu” (See page 54).

| Code | Language | Code | Language | Code | Language | Code | Language |
|---|---|---|---|---|---|---|---|
| 1027 | Afar | 1181 | Frisian | 1334 | Latvian, Lettish | 1506 | Slovenian |
| 1028 | Abkhazian | 1183 | Irish | 1345 | Malagasy | 1507 | Samoan |
| 1032 | Afrikaans | 1186 | Scots Gaelic | 1347 | Maori | 1508 | Shona |
| 1039 | Amharic | 1194 | Galician | 1349 | Macedonian | 1509 | Somali |
| 1044 | Arabic | 1196 | Guarani | 1350 | Malayalam | 1511 | Albanian |
| 1045 | Assamese | 1203 | Gujarati | 1352 | Mongolian | 1512 | Serbian |
| 1051 | Aymara | 1209 | Hausa | 1353 | Moldavian | 1513 | Siswati |
| 1052 | Azerbaijani | 1217 | Hindi | 1356 | Marathi | 1514 | Sesotho |
| 1053 | Bashkir | 1226 | Croatian | 1357 | Malay | 1515 | Sundanese |
| 1057 | Byelorussian | 1229 | Hungarian | 1358 | Maltese | 1516 | Swedish |
| 1059 | Bulgarian | 1233 | Armenian | 1363 | Burmese | 1517 | Swahili |
| 1060 | Bihari | 1235 | Interlingua | 1365 | Nauru | 1521 | Tamil |
| 1069 | Bislama | 1239 | Interlingue | 1369 | Nepali | 1525 | Tegulu |
| 1066 | Bengali; Bangla | 1245 | Inupiak | 1376 | Dutch | 1527 | Tajik |
| 1067 | Tibetan | 1248 | Indonesian | 1379 | Norwegian | 1528 | Thai |
| 1070 | Breton | 1253 | Icelandic | 1393 | Occitan | 1529 | Tigrinya |
| 1079 | Catalan | 1254 | Italian | 1403 | (Afan) Oromo | 1531 | Turkmen |
| 1093 | Corsican | 1257 | Hebrew | 1408 | Oriya | 1532 | Tagalog |
| 1097 | Czech | 1261 | Japanese | 1417 | Punjabi | 1534 | Setswana |
| 1103 | Welsh | 1269 | Yiddish | 1428 | Polish | 1535 | Tonga |
| 1105 | Danish | 1283 | Javanese | 1435 | Pashto, Pushto | 1538 | Turkish |
| 1109 | German | 1287 | Georgian | 1436 | Portuguese | 1539 | Tsonga |
| 1130 | Bhutani | 1297 | Kazakh | 1463 | Quechua | 1540 | Tatar |
| 1142 | Greek | 1298 | Greenlandic | 1481 | Rhaeto-Romance | 1543 | Twi |
| 1144 | English | 1299 | Cambodian | 1482 | Kirundi | 1557 | Ukrainian |
| 1145 | Esperanto | 1300 | Kannada | 1483 | Romanian | 1564 | Urdu |
| 1149 | Spanish | 1301 | Korean | 1489 | Russian | 1572 | Uzbek |
| 1150 | Estonian | 1305 | Kashmiri | 1491 | Kinyarwanda | 1581 | Vietnamese |
| 1151 | Basque | 1307 | Kurdish | 1495 | Sanskrit | 1587 | Volapuk |
| 1157 | Persian | 1311 | Kirghiz | 1498 | Sindhi | 1613 | Wolof |
| 1165 | Finnish | 1313 | Latin | 1501 | Sangro | 1632 | Xhosa |
| 1166 | Fiji | 1326 | Lingala | 1502 | Serbo-Croatian | 1665 | Yoruba |
| 1171 | Faeroese | 1327 | Laothian | 1503 | Singhalese | 1684 | Chinese |
| 1174 | French | 1332 | Lithuanian | 1505 | Slovak | 1697 | Zulu |

## CAUTIONS ON HANDLING AND STORING DISCS

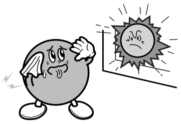
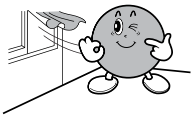
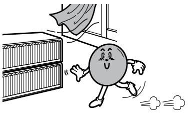
Small scratches on the disc may reduce sound and picture quality or cause skipping.

Be especially careful not to scratch discs when handling them.

### Handling discs

Do not touch the playback side of the disc.
Hold the disc by the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.

### Disc Storage

| Do not keep in direct sunlight | Keep in a cool ventilated area | Keep in a clean Protection jacket.<br>Store vertically. |
|---|---|---|
|  |  |  |

- Do not allow the discs to become contaminated with dirt.
- Do not load cracked or scratched discs.

### Handling and Storing Discs

When you get fingerprints or dirt on the disc, clean it with a mild detergent diluted in water and wipe with a soft cloth.

- When cleaning, wipe gently from the inside to the outside of the disc

- Condensation may form if warm air comes into contact with cold parts inside the player. When condensation forms inside the player, the player may not operate correctly. If this occurs, remove the disc and let the player stand for 1 or 2 hours with the power on.

# SPECIFICATIONS

| | | |
|---|---|---|
| General | Power Consumption | 75 W |
| | Weight | 3.5 Kg |
| | Dimensions | 430 (W) x 70 (H) x 282 (D) mm |
| | Operating Temperature Range | +5°C~+35°C |
| | Operating Humidity Range | 10 % to 75 % |
| Disc | DVD (Digital Versatile Disc) | Reading Speed : 3.49 ~ 4.06 m/sec. |
| | | Approx. Play Time (Single Sided, Single Layer Disc) : 135 min. |
| | CD : 12 cm (COMPACT DISC) | Reading Speed : 4.8 ~ 5.6 m/sec. |
| | | Maximum Play Time : 74 min. |
| | CD : 8cm (COMPACT DISC) | Reading Speed : 4.8 ~ 5.6 m/sec. |
| | | Maximum Play Time : 20 min. |
| Video Output | Composite Video | 576i/480i |
| | | 1 channel : 1.0 Vp-p (75 Ω load) |
| | Component Video | 576i/480i |
| | | Y : 1.0 Vp-p (75 Ω load) |
| | | Pr : 0.70 Vp-p (75 Ω load) |
| | | Pb : 0.70 Vp-p (75 Ω load) |
| Video/Audio | HDMI | 1080p, 1080i, 720p, 576p/480p |
| FM | FM Frequency Range | 87.5~108.0MHz |
| | Signal/noise ratio | 62dB |
| | Usable sensitivity | 10dB |
| | Total harmonic distortion | 0.4% |
| Amplifier | Front speaker output | 166W x 2(3Ω) |
| | Centre speaker output | 166W(3Ω) |
| | Rear speaker output | 166W x 2(3Ω) |
| | Subwoofer speaker output | 170W(3Ω) |
| | Frequency range | 20Hz~20KHz |
| | S/N Ratio | 70dB |
| | Channel separation | 60dB |
| | Input sensitivity | (AUX)400mV |

## SWA-4100(HT-Z420/TZ422/TZ425 )

| | |
|---|---|
| Power Consumption | 50 W |
| Weight | 1.3 Kg |
| Dimensions (W x H x D) | 76 x 256 x 175 mm |
| Operating Temperature Range | +5°C~+35°C |
| Operating Humidity Range | 10% ~ 75% |
| Output | 166W x 2 |
| Frequency range | 20Hz~20KHz |
| S/N Ratio | 75dB |

## SPECIFICATIONS

### HT-Z320

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front/Rear : 100 x 150 x 89 mm<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 0.5 kg, Centre : 0.6 kg<br>Rear : 0.4 kg, Subwoofer : 4.5 kg | | |

### HT-TZ322

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front : 240 x 1020 x 240 mm (stand base : 240 x 240)<br>Rear : 100 x 100 x 93 mm<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 2.8 kg, Centre : 0.6 kg<br>Rear : 0.4 kg, Subwoofer : 4.5 kg | | |

### HT-TZ325

| | | | | |
|---|---|---|---|---|
| Speaker | Speaker system | 5.1ch speaker system | | |
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170 W |
| | Maximum input | 332W | 332W | 340 W |
| | Dimensions (W x H x D) | Front/Rear : 240 x 1026x 240 mm (stand base : 240 x 240)<br>Centre : 300 x 59 x 50 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 2.8 kg, Centre : 0.6 kg<br>Rear : 2.6 kg, Subwoofer : 4.5 kg | | |

## HT-Z420

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front : 100 x 210 x 99 mm<br>Rear : 101 x 151 x 88 mm<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 0.6 kg, Centre : 0.9 kg<br>Rear : 0.5 kg, Subwoofer : 4.5 kg | | |

## HT-TZ422

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front : 260 x 1202 x 260 mm (stand base : 260 x 260)<br>Rear : 101 x 151 x 88 mm<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 3.0 kg, Centre : 0.9 kg<br>Rear : 0.5 kg, Subwoofer : 4.5 kg | | |

## HT-TZ425

| Speaker | Speaker system | 5.1ch speaker system | | |
|---|---|---|---|---|
| | | Front/Rear | Centre | Subwoofer |
| | Impedance | 3 Ω | 3 Ω | 3 Ω |
| | Frequency range | 140Hz~20KHz | 140Hz~20KHz | 45Hz~160Hz |
| | Output sound pressure level | 86dB/W/M | 86dB/W/M | 86dB/W/M |
| | Rated input | 166W | 166W | 170W |
| | Maximum input | 332W | 332W | 340W |
| | Dimensions (W x H x D) | Front /Rear: 260 x 1202 x 260 mm (stand base : 260 x 260)<br>Centre : 300 x 57 x 48 mm<br>Subwoofer : 180 x 320 x 380 mm | | |
| | Weights | Front : 3.0 kg, Centre : 0.9 kg<br>Rear : 3.0 kg, Subwoofer : 4.5 kg | | |

*: Nominal specification

- Samsung Electronics Co., Ltd reserves the right to change the specifications without notice.
- Weight and dimensions are approximate.

## Contact SAMSUNG WORLD WIDE

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

| Region | Country | Customer Care Center ☎ | Web Site |
|---|---|---|---|
| North America | CANADA | 1-800-SAMSUNG(726-7864) | www.samsung.com/ca |
| | MEXICO | 01-800-SAMSUNG(726-7864) | www.samsung.com |
| | U.S.A | 1-800-SAMSUNG(726-7864) | www.samsung.com |
| Latin America | ARGENTINE | 0800-333-3733 | www.samsung.com/ar |
| | BRAZIL | 0800-124-421 , 4004-0000 | www.samsung.com |
| | CHILE | 800-SAMSUNG(726-7864) | www.samsung.com/cl |
| | NICARAGUA | 00-1800-5077267 | |
| | HONDURAS | 800-7919267 | |
| | COSTA RICA | 0-800-507-7267 | www.samsung.com/latin |
| | ECUADOR | 1-800-10-7267 | www.samsung.com/latin |
| | EL SALVADOR | 800-6225 | www.samsung.com/latin |
| | GUATEMALA | 1-800-299-0013 | www.samsung.com/latin |
| | JAMAICA | 1-800-234-7267 | www.samsung.com/latin |
| | PANAMA | 800-7267 | www.samsung.com/latin |
| | PUERTO RICO | 1-800-682-3180 | www.samsung.com/latin |
| | REP. DOMINICA | 1-800-751-2676 | www.samsung.com/latin |
| | TRINIDAD & TOBAGO | 1-800-SAMSUNG(726-7864) | www.samsung.com/latin |
| | VENEZUELA | 0-800-100-5303 | www.samsung.com/latin |
| | COLOMBIA | 01-8000112112 | www.samsung.com.co |
| Europe | BELGIUM | 0032 (0)2 201 24 18 | www.samsung.com/be |
| | CZECH REPUBLIC | 844 000 844<br>Distributor pro Českou republiku:<br>Samsung Zrt., česka organizační složka<br>Vyskočilova 4, 14000 Praha 4 | www.samsung.com/cz |
| | DENMARK | 70 70 19 70 | www.samsung.com/dk |
| | FINLAND | 030-6227 515 | www.samsung.com/fi |
| | FRANCE | 3260 SAMSUNG (€ 0,15/Min),<br>08 25 08 65 65 (€ 0,15/Min) | www.samsung.com |
| | GERMANY | 01805 - SAMSUNG(726-7864) (€ 0,14/Min) | www.samsung.com |
| | HUNGARY | 06-80-SAMSUNG(726-7864) | www.samsung.com |
| | ITALIA | 800-SAMSUNG(726-7864) | www.samsung.com |
| | LUXEMBURG | 0035 (0)2 261 03 710 | www.samsung.com/be |
| | NETHERLANDS | 0900-SAMSUNG(726-7864) (€ 0,10/Min) | www.samsung.com/nl |
| | NORWAY | 815-56 480 | www.samsung.com/no |
| | POLAND | 0 801 801 881 , 022-607-93-33 | www.samsung.com/pl |
| | PORTUGAL | 80820-SAMSUNG(726-7864) | www.samsung.com/pt |
| | SLOVAKIA | 0800-SAMSUNG(726-7864) | www.samsung.com/sk |
| | SPAIN | 902 10 11 30 | www.samsung.com |
| | SWEDEN | 0771-400 200 | www.samsung.com/se |
| | U.K | 0845 SAMSUNG (7267864) | www.samsung.com |
| | EIRE | 0818 717 100 | www.samsung.com/ie |
| | AUSTRIA | 0800-SAMSUNG(726-7864) | www.samsung.com/at |
| | SWITZERLAND | 0800-SAMSUNG(726-7864) | www.samsung.com/ch |
| CIS | RUSSIA | 8-800-555-55-55 | www.samsung.com |
| | KAZAHSTAN | 8-10-800-500-55-500 | www.samsung.kz |
| | UZBEKISTAN | 8-10-800-500-55-500 | www.samsung.uz |
| | KYRGYZSTAN | 00-800-500-55-500 | |
| | TADJIKISTAN | 8-10-800-500-55-500 | |
| | UKRAINE | 8-800-502-0000 | www.samsung.com |
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| | LATVIA | 800-7267 | www.samsung.com/lv |
| | ESTONIA | 800-7267 | www.samsung.ee |
| Asia Pacific | AUSTRALIA | 1300 362 603 | www.samsung.com |
| | NEW ZEALAND | 0800SAMSUNG(726-7864) | www.samsung.com/nz |
| | CHINA | 800-810-5858 , 010-6475 1880 | www.samsung.com |
| | HONG KONG | 3698-4698 | www.samsung.com/hk |
| | INDIA | 3030 8282 , 1800 110011 | www.samsung.com |
| | INDONESIA | 0800-112-8888 | www.samsung.com |
| | JAPAN | 0120-327-527 | www.samsung.com/jp |
| | MALAYSIA | 1800-88-9999 | www.samsung.com/my |
| | PHILIPPINES | 1800-10-SAMSUNG(726-7864) | www.samsung.com/ph |
| | SINGAPORE | 1800-SAMSUNG(726-7864) | www.samsung.com |
| | THAILAND | 1800-29-3232 , 02-689-3232 | www.samsung.com |
| | TAIWAN | 0800-329-999 | www.samsung.com/tw |
| | VIETNAM | 1 800 588 889 | www.samsung.com |
| Middle East & Africa | TURKEY | 444 77 11 | www.samsung.com |
| | SOUTH AFRICA | 0860-SAMSUNG(726-7864 ) | www.samsung.com |
| | U.A.E | 800-SAMSUNG (726-7864), 8000-4726 | www.samsung.com |

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